SAR Test Record

Head SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
750MHz																						
01	LTE Band 12	10M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	24.61	25.00	1.094			0.02	0.921	**1.008**	1
Repeated	LTE Band 12	10M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	24.61	25.00	1.094			0.01	0.911	0.997	1.011
	LTE Band 12	10M	QPSK	25	0	—	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	23.65	24.00	1.084			0.05	0.811	0.879	—
	LTE Band 12	10M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	23.45	24.00	1.135			0.03	0.785	0.891	—
	LTE Band 12	10M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	24.61	25.00	1.094			0.07	0.871	0.953	—
	LTE Band 12	10M	QPSK	25	0	—	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	23.65	24.00	1.084			-0.03	0.794	0.861	—
	LTE Band 12	10M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	23.45	24.00	1.135			0.06	0.741	0.841	—
	LTE Band 12	10M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	24.61	25.00	1.094			-0.06	0.429	0.469	—
	LTE Band 12	10M	QPSK	25	0	—	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	23.65	24.00	1.084			-0.01	0.358	0.388	—
	LTE Band 12	10M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	24.61	25.00	1.094			0.02	0.461	0.504	—
	LTE Band 12	10M	QPSK	25	0	—	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	23.65	24.00	1.084			-0.06	0.415	0.450	—
Simultaneous	LTE Band 12	10M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	23.70	24.00	1.072			0.02	0.839	0.899	—
	LTE Band 12	10M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	2	24.61	25.00	1.094			0.03	0.803	0.878	—
02	LTE Band 13	10M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	24.31	25.00	1.172			0.08	0.204	**0.239**	—
	LTE Band 13	10M	QPSK	25	0	—	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	23.33	24.00	1.167			-0.03	0.188	0.219	—
	LTE Band 13	10M	QPSK	1	0	—	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	24.31	25.00	1.172			-0.06	0.114	0.134	—
	LTE Band 13	10M	QPSK	25	0	—	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	23.33	24.00	1.167			-0.01	0.103	0.120	—
	LTE Band 13	10M	QPSK	1	0	—	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	24.31	25.00	1.172			0.02	0.165	0.193	—
	LTE Band 13	10M	QPSK	25	0	—	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	23.33	24.00	1.167			-0.06	0.149	0.174	—
	LTE Band 13	10M	QPSK	1	0	—	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	24.31	25.00	1.172			0.06	0.102	0.120	—
	LTE Band 13	10M	QPSK	25	0	—	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	23.33	24.00	1.167			-0.05	0.092	0.107	—
	LTE Band 13	10M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	23230	782	2	24.31	25.00	1.172			0.02	0.130	0.152	—
835MHz																						
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	128	824.2	1	29.71	30.90	1.315			0.06	0.181	0.238	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	128	824.2	1	29.71	30.90	1.315			-0.05	0.120	0.158	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	128	824.2	1	29.71	30.90	1.315			-0.04	0.204	0.268	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	128	824.2	1	29.71	30.90	1.315			0.01	0.137	0.180	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.72	24.00	1.067			0.08	0.300	0.320	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.72	24.00	1.067			-0.06	0.165	0.176	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.72	24.00	1.067			0.05	0.221	0.236	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.72	24.00	1.067			0.02	0.140	0.149	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	2	23.72	24.00	1.067			0.03	0.148	0.158	—
03	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	167300	836.5	1	21.82	22.80	1.253			0.06	0.985	**1.234**	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	166800	834	1	21.70	22.80	1.288			0.03	0.942	1.214	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	167800	839	1	21.61	22.80	1.315			0.01	0.926	1.218	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	167300	836.5	1	21.75	22.80	1.274			0.05	0.851	1.084	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	166800	834	1	21.58	22.80	1.324			0.06	0.831	1.101	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	167800	839	1	21.51	22.80	1.346			0.03	0.828	1.114	—
	FR1 n5	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	167300	836.5	1	21.67	22.80	1.297			-0.06	0.889	1.153	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	167300	836.5	1	21.82	22.80	1.253			0.06	0.769	0.964	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	166800	834	1	21.70	22.80	1.288			-0.01	0.742	0.956	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	167800	839	1	21.61	22.80	1.315			0.05	0.730	0.960	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	167300	836.5	1	21.75	22.80	1.274			-0.03	0.782	0.996	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	166800	834	1	21.58	22.80	1.324			0.09	0.715	0.947	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	167800	839	1	21.51	22.80	1.346			0.06	0.720	0.969	—
	FR1 n5	20M	QPSK	100	0	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	167300	836.5	1	21.67	22.80	1.297			0.07	0.769	0.998	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 2	167300	836.5	1	21.82	22.80	1.253			-0.03	0.576	0.722	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 2	167300	836.5	1	21.75	22.80	1.274			0.02	0.509	0.648	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 2	167300	836.5	1	21.82	22.80	1.253			0.02	0.502	0.629	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI 2	167300	836.5	1	21.75	22.80	1.274			0.02	0.483	0.615	—
Simultaneous	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	167300	836.5	1	20.38	21.50	1.294			-0.03	0.729	0.943	—
04	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	189	836.4	1	26.96	27.20	1.057			0.02	1.090	**1.152**	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	128	824.2	1	26.88	27.20	1.076			-0.06	0.918	0.988	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	251	848.8	1	26.75	27.20	1.109			-0.01	0.945	1.048	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	189	836.4	1	26.96	27.20	1.057			0.02	0.822	0.869	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	128	824.2	1	26.88	27.20	1.076			-0.06	0.739	0.796	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	251	848.8	1	26.75	27.20	1.109			0.06	0.714	0.792	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	189	836.4	1	26.96	27.20	1.057			-0.05	0.740	0.782	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	189	836.4	1	26.96	27.20	1.057			0.02	0.657	0.694	—
Simultaneous	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	189	836.4	1	25.65	25.90	1.059			0.06	0.717	0.759	—
05	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	21.79	22.30	1.125			0.03	1.100	**1.237**	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4132	826.4	1	21.78	22.30	1.127			0.02	1.080	1.217	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	1	21.67	22.30	1.156			0.05	1.040	1.202	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	21.79	22.30	1.125			0.07	0.884	0.994	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4132	826.4	1	21.78	22.30	1.127			-0.03	0.791	0.892	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4233	846.6	1	21.67	22.30	1.156			-0.06	0.805	0.931	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	21.79	22.30	1.125			-0.01	0.642	0.722	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	21.79	22.30	1.125			0.06	0.536	0.603	—
Simultaneous	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	20.43	21.00	1.140			0.04	0.753	0.859	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	2	21.79	22.30	1.125			0.02	0.725	0.815	—
06	LTE Band 26	15M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.85	21.90	1.012			-0.03	1.130	**1.143**	1
Repeated	LTE Band 26	15M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.85	21.90	1.012			0.01	1.080	1.093	1.046
	LTE Band 26	15M	QPSK	36	0	—	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.39	21.40	1.002			-0.06	0.971	0.973	—
	LTE Band 26	15M	QPSK	75	0	—	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.34	21.40	1.014			-0.01	0.996	1.010	—
	LTE Band 26	15M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.85	21.90	1.012			0.02	1.000	1.012	—
	LTE Band 26	15M	QPSK	36	0	—	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.39	21.40	1.002			-0.06	0.887	0.889	—
	LTE Band 26	15M	QPSK	75	0	—	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.34	21.40	1.014			0.06	0.921	0.934	—
	LTE Band 26	15M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.85	21.90	1.012			0.02	0.253	0.256	—
	LTE Band 26	15M	QPSK	36	0	—	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.39	21.40	1.002			-0.06	0.242	0.243	—
	LTE Band 26	15M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.85	21.90	1.012			0.06	0.653	0.661	—
	LTE Band 26	15M	QPSK	36	0	—	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.39	21.40	1.002			0.03	0.557	0.558	—
Simultaneous	LTE Band 26	15M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	20.21	20.60	1.094			0.05	0.716	0.783	—

SAR Test Record

Head SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1750MHz																						
07	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	23.06	24.00	1.242			0.01	0.163	**0.202**	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	23.06	24.00	1.242			-0.06	0.098	0.122	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	23.06	24.00	1.242			0.06	0.109	0.135	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	23.06	24.00	1.242			-0.05	0.075	0.093	—
	LTE Band 66	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.68	24.00	1.355			0.06	0.071	0.096	—
	LTE Band 66	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	21.65	23.00	1.365			-0.05	0.060	0.082	—
	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.68	24.00	1.355			-0.06	0.042	0.057	—
	LTE Band 66	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	21.65	23.00	1.365			0.05	0.035	0.048	—
	LTE Band 66	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.68	24.00	1.355			0.06	0.120	0.163	—
	LTE Band 66	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	21.65	23.00	1.365			-0.06	0.112	0.153	—
	LTE Band 66	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.68	24.00	1.355			0.06	0.097	0.131	—
	LTE Band 66	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	21.65	23.00	1.365			-0.05	0.079	0.108	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	1	22.28	24.00	1.486			0.1	0.149	0.221	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	1	22.20	24.00	1.514			0.08	0.150	0.227	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	1	22.28	24.00	1.486			0.06	0.083	0.123	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	1	22.20	24.00	1.514			-0.05	0.075	0.114	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	1	22.28	24.00	1.486			-0.06	0.121	0.180	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	1	22.20	24.00	1.514			0.05	0.110	0.166	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	349000	1745	1	22.28	24.00	1.486			0.02	0.083	0.123	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	349000	1745	1	22.20	24.00	1.514			0.06	0.071	0.107	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	2	22.20	24.00	1.514			0.03	0.145	0.219	—
	LTE Band 66	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.71	18.80	1.285			0.02	0.863	1.109	—
	LTE Band 66	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	1	17.56	18.80	1.330			-0.06	0.797	1.060	—
	LTE Band 66	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	1	17.66	18.80	1.300			-0.01	0.868	1.129	—
	LTE Band 66	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.69	18.80	1.291			0.01	0.719	0.928	—
	LTE Band 66	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	1	17.66	18.80	1.300			0.02	0.648	0.843	—
	LTE Band 66	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	1	17.67	18.80	1.297			-0.06	0.686	0.890	—
	LTE Band 66	20M	QPSK	100	0	—	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.68	18.80	1.294			-0.01	0.706	0.914	—
	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.71	18.80	1.285			0.02	0.939	1.207	—
	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	1	17.56	18.80	1.330			0.03	0.886	1.179	—
08	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	17.66	18.80	1.300			0.06	0.962	**1.251**	1
Repeated	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	17.66	18.80	1.300			0.03	0.945	1.229	1.018
	LTE Band 66	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.69	18.80	1.291			0.02	0.785	1.014	—
	LTE Band 66	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	1	17.66	18.80	1.300			0.05	0.706	0.918	—
	LTE Band 66	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	17.67	18.80	1.297			0.07	0.762	0.988	—
	LTE Band 66	20M	QPSK	100	0	—	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.68	18.80	1.294			-0.03	0.780	1.009	—
	LTE Band 66	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.71	18.80	1.285			-0.06	0.334	0.429	—
	LTE Band 66	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.69	18.80	1.291			-0.06	0.273	0.353	—
	LTE Band 66	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.71	18.80	1.285			0.05	0.390	0.501	—
	LTE Band 66	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.69	18.80	1.291			0.02	0.319	0.412	—
Simultaneous	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	16.30	17.50	1.318			0.1	0.772	1.018	—
	LTE Band 66	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	2	17.66	18.80	1.300			0.02	0.829	1.078	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	17.78	18.80	1.265			0.01	0.888	1.123	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	346000	1730	1	17.60	18.80	1.318			0.04	0.827	1.090	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	352000	1760	1	17.71	18.80	1.285			0.02	0.921	1.184	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	17.65	18.80	1.303			0.05	0.921	1.200	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	346000	1730	1	17.62	18.80	1.312			0.07	0.930	1.220	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	352000	1760	1	17.57	18.80	1.327			-0.03	0.910	1.208	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	17.70	18.80	1.288			-0.06	0.753	0.970	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	17.78	18.80	1.265			-0.01	0.916	1.158	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	346000	1730	1	17.60	18.80	1.318			0.02	0.813	1.072	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	352000	1760	1	17.71	18.80	1.285			-0.06	0.954	1.226	—
09	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	17.65	18.80	1.303			0.08	0.960	**1.251**	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	346000	1730	1	17.62	18.80	1.312			-0.05	0.912	1.197	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	352000	1760	1	17.57	18.80	1.327			-0.06	0.909	1.207	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	17.70	18.80	1.288			0.05	0.836	1.077	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	17.78	18.80	1.265			0.02	0.346	0.438	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	17.65	18.80	1.303			-0.06	0.362	0.472	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	17.78	18.80	1.265			-0.05	0.479	0.606	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	17.65	18.80	1.303			0.02	0.396	0.516	—
Simultaneous	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.45	17.50	1.274			0.01	0.778	0.991	—
1900MHz																						
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	661	1880	1	26.03	27.40	1.371			0.05	0.039	0.053	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	661	1880	1	26.03	27.40	1.371			0.02	0.033	0.045	—
10	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	661	1880	1	26.03	27.40	1.371			0.06	0.058	**0.080**	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	661	1880	1	26.03	27.40	1.371			0.01	0.030	0.041	—
11	WCDMA II	—	—	—	—	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	9400	1880	1	22.75	24.00	1.334			0.01	0.086	**0.115**	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	9400	1880	1	22.75	24.00	1.334			0.02	0.048	0.064	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	9400	1880	1	22.75	24.00	1.334			0.06	0.070	0.093	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	9400	1880	1	22.75	24.00	1.334			0.01	0.062	0.083	—
	LTE Band 2	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	1	22.30	24.00	1.479			0.19	0.112	0.166	—
	LTE Band 2	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	1	21.38	23.00	1.452			-0.05	0.084	0.122	—
	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 0	DSI 2	18900	1880	1	22.30	24.00	1.479			-0.06	0.058	0.086	—
	LTE Band 2	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 0	DSI 2	18900	1880	1	21.38	23.00	1.452			0.05	0.046	0.067	—
	LTE Band 2	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 0	DSI 2	18900	1880	1	22.30	24.00	1.479			0.02	0.057	0.084	—
	LTE Band 2	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 0	DSI 2	18900	1880	1	21.38	23.00	1.452			0.06	0.049	0.071	—
	LTE Band 2	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 0	DSI 2	18900	1880	1	22.30	24.00	1.479			0.02	0.053	0.078	—
	LTE Band 2	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 0	DSI 2	18900	1880	1	21.38	23.00	1.452			-0.06	0.032	0.046	—
	LTE Band 2	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	2	22.30	24.00	1.479			0.03	0.103	0.152	—
	LTE Band 2	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	18900	1880	1	17.65	18.60	1.245			0.05	0.880	1.095	—
	LTE Band 2	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	18700	1860	1	17.59	18.60	1.262			0.02	0.792	0.999	—
	LTE Band 2	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	19100	1900	1	17.60	18.60	1.259			0.06	0.908	1.143	—
	LTE Band 2	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	18900	1880	1	17.62	18.60	1.253			0.02	0.720	0.902	—
	LTE Band 2	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	18700	1860	1	17.54	18.60	1.276			-0.06	0.653	0.834	—
	LTE Band 2	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	19100	1900	1	17.58	18.60	1.265			0.02	0.743	0.940	—
	LTE Band 2	20M	QPSK	100	0	—	Right Cheek	0mm	Ant 1	DSI 2	18900	1880	1	17.60	18.60	1.259			-0.06	0.723	0.910	—
	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	18900	1880	1	17.65	18.60	1.245			0.06	0.963	1.198	—
	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	18700	1860	1	17.59	18.60	1.262			0.02	0.880	1.110	—
12	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	1	17.60	18.60	1.259			0.03	0.991	**1.248**	1
Repeated	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	1	17.60	18.60	1.259			0.06	0.975	1.227	1.016
	LTE Band 2	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	18900	1880	1	17.62	18.60	1.253			-0.06	0.779	0.976	—
	LTE Band 2	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	18700	1860	1	17.54	18.60	1.276			0.05	0.725	0.925	—
	LTE Band 2	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	1	17.58	18.60	1.265			0.02	0.808	1.022	—
	LTE Band 2	20M	QPSK	100	0	—	Right Tilted	0mm	Ant 1	DSI 2	18900	1880	1	17.60	18.60	1.259			0.06	0.782	0.984	—
	LTE Band 2	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	18900	1880	1	17.65	18.60	1.245			0.02	0.379	0.472	—
	LTE Band 2	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 1	DSI 2	18900	1880	1	17.62	18.60	1.253			-0.06	0.307	0.385	—
	LTE Band 2	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	18900	1880	1	17.65	18.60	1.245			0.05	0.498	0.620	—
	LTE Band 2	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 1	DSI 2	18900	1880	1	17.62	18.60	1.253			0.06	0.405	0.508	—
Simultaneous	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	1	16.25	17.30	1.274			0.01	0.675	0.860	—
	LTE Band 2	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	2	17.60	18.60	1.259			0.09	0.800	1.007	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.97	19.10	1.297			0.02	0.871	1.130	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	1	17.92	19.10	1.312			0.03	0.785	1.030	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	1	17.84	19.10	1.337			-0.06	0.871	1.164	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.89	19.10	1.321			0.05	0.835	1.103	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	1	17.78	19.10	1.355			0.02	0.804	1.090	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	1	17.71	19.10	1.377			0.06	0.845	1.164	—
	FR1 n2	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.96	19.10	1.300			0.02	0.745	0.969	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.97	19.10	1.297			-0.06	0.923	1.197	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	372000	1860	1	17.92	19.10	1.312			0.02	0.840	1.102	—
13	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	380000	1900	1	17.84	19.10	1.337			0.02	0.925	**1.236**	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.89	19.10	1.321			0.06	0.890	1.176	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	372000	1860	1	17.78	19.10	1.355			0.02	0.861	1.167	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	380000	1900	1	17.71	19.10	1.377			0.03	0.888	1.223	—
	FR1 n2	20M	QPSK	100	0	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.96	19.10	1.300			-0.06	0.795	1.034	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.97	19.10	1.297			0.05	0.367	0.476	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.89	19.10	1.321			0.02	0.360	0.476	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.97	19.10	1.297			0.06	0.476	0.617	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.89	19.10	1.321			0.02	0.447	0.591	—
Simultaneous	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 2	380000	1900	1	16.60	17.80	1.318			-0.09	0.734	0.968	—

SAR Test Record

Head SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
2600MHz																						
	LTE Band 7	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	1	22.97	24.00	1.268			0.01	0.244	0.309	—
UL CA	LTE Band 7	20M	QPSK	1	99	—	Right Cheek	0mm	Ant 0	DSI 2	21100+21298	2535+2554.8	1	22.41	24.00	1.442			0.03	0.199	0.287	—
	LTE Band 7	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	1	21.94	23.00	1.276			0.06	0.195	0.249	—
	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	1	22.97	24.00	1.268			-0.05	0.078	0.099	—
	LTE Band 7	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	1	21.94	23.00	1.276			0.05	0.065	0.083	—
	LTE Band 7	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	1	22.97	24.00	1.268			0.02	0.158	0.200	—
	LTE Band 7	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	1	21.94	23.00	1.276			0.05	0.123	0.157	—
	LTE Band 7	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	1	22.97	24.00	1.268			0.02	0.129	0.164	—
	LTE Band 7	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	1	21.94	23.00	1.276			-0.06	0.100	0.128	—
	LTE Band 7	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	2	22.97	24.00	1.268			0.06	0.166	0.210	—
	LTE Band 41	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.08	0.106	0.133	—
	LTE Band 41	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	1	22.15	23.00	1.216	62.9	1.006	-0.06	0.096	0.117	—
	LTE Band 41	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.05	0.043	0.054	—
	LTE Band 41	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	1	22.15	23.00	1.216	62.9	1.006	0.02	0.030	0.037	—
	LTE Band 41	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.06	0.076	0.095	—
	LTE Band 41	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	1	22.15	23.00	1.216	62.9	1.006	0.02	0.054	0.066	—
	LTE Band 41	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.06	0.046	0.058	—
	LTE Band 41	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	1	22.15	23.00	1.216	62.9	1.006	-0.06	0.032	0.039	—
14	LTE Band 41 HPUE	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	1	25.33	27.00	1.469	42.9	1.009	0.02	0.118	**0.175**	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	507000	2535	1	23.27	24.00	1.183			0.01	0.159	0.188	—
15	FR1 n7	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	507000	2535	1	23.22	24.00	1.197			-0.01	0.168	**0.201**	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	507000	2535	1	23.27	24.00	1.183			-0.05	0.110	0.130	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	507000	2535	1	23.22	24.00	1.197			0.05	0.104	0.124	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 2	507000	2535	1	23.27	24.00	1.183			0.02	0.106	0.125	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 0	DSI 2	507000	2535	1	23.22	24.00	1.197			-0.06	0.112	0.134	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	507000	2535	1	23.27	24.00	1.183			0.06	0.072	0.085	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	507000	2535	1	23.22	24.00	1.197			0.05	0.066	0.079	—
16	FR1 n38	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 2	519000	2595	1	23.25	24.00	1.189			-0.04	0.137	**0.163**	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 0	DSI 2	519000	2595	1	23.12	24.00	1.225			0.06	0.127	0.156	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 2	519000	2595	1	23.25	24.00	1.189			-0.05	0.078	0.093	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 0	DSI 2	519000	2595	1	23.12	24.00	1.225			0.05	0.068	0.083	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 2	519000	2595	1	23.25	24.00	1.189			0.02	0.088	0.105	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 0	DSI 2	519000	2595	1	23.12	24.00	1.225			-0.06	0.094	0.115	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 2	519000	2595	1	23.25	24.00	1.189			0.06	0.053	0.063	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 0	DSI 2	519000	2595	1	23.12	24.00	1.225			0.01	0.056	0.069	—
	LTE Band 7	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	17.81	18.70	1.227			0.02	0.694	0.852	—
	LTE Band 7	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	1	17.63	18.70	1.279			-0.05	0.735	0.940	—
	LTE Band 7	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	1	17.70	18.70	1.259			0.05	0.781	0.983	—
	LTE Band 7	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	17.74	18.70	1.247			0.02	0.580	0.723	—
	LTE Band 7	20M	QPSK	100	0	—	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	17.68	18.70	1.265			0.05	0.594	0.751	—
	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	17.81	18.70	1.227			0.02	0.900	1.105	—
	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	20850	2510	1	17.63	18.70	1.279			0.03	0.922	1.180	—
17	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	1	17.70	18.70	1.259			0.06	0.998	**1.256**	1
Repeated	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	1	17.70	18.70	1.259			0.03	0.974	1.226	1.025
	LTE Band 7	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	17.74	18.70	1.247			0.06	0.852	1.063	—
	LTE Band 7	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	20850	2510	1	17.57	18.70	1.297			0.02	0.881	1.143	—
	LTE Band 7	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	1	17.67	18.70	1.268			-0.05	0.897	1.137	—
	LTE Band 7	20M	QPSK	100	0	—	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	17.68	18.70	1.265			0.05	0.846	1.070	—
	LTE Band 7	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	17.81	18.70	1.227			0.02	0.702	0.862	—
	LTE Band 7	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	20850	2510	1	17.63	18.70	1.279			-0.06	0.629	0.805	—
	LTE Band 7	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	21350	2560	1	17.70	18.70	1.259			0.06	0.667	0.840	—
	LTE Band 7	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	17.74	18.70	1.247			-0.05	0.631	0.787	—
	LTE Band 7	20M	QPSK	100	0	—	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	17.68	18.70	1.265			-0.05	0.545	0.689	—
	LTE Band 7	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	17.81	18.70	1.227			0.05	0.754	0.925	—
	LTE Band 7	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	20850	2510	1	17.63	18.70	1.279			0.02	0.740	0.947	—
	LTE Band 7	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	21350	2560	1	17.70	18.70	1.259			-0.06	0.778	0.979	—
	LTE Band 7	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	17.74	18.70	1.247			0.06	0.635	0.792	—
	LTE Band 7	20M	QPSK	100	0	—	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	17.68	18.70	1.265			0.03	0.611	0.773	—
Simultaneous	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	1	16.40	17.40	1.259			0.01	0.726	0.914	—
	LTE Band 7	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	2	17.70	18.70	1.259			0.04	0.842	1.060	—
	LTE Band 38	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	38000	2595	1	17.80	19.10	1.349			0.04	0.727	0.981	—
	LTE Band 38	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	37850	2580	1	17.75	19.10	1.365			-0.05	0.773	1.055	—
	LTE Band 38	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 1	DSI 2	38150	2610	1	17.54	19.10	1.432			0.05	0.738	1.057	—
	LTE Band 38	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 1	DSI 2	38000	2595	1	17.59	19.10	1.416			0.02	0.551	0.780	—
	LTE Band 38	20M	QPSK	100	0	—	Right Cheek	0mm	Ant 1	DSI 2	38000	2595	1	17.53	19.10	1.435			0.05	0.537	0.771	—
18	LTE Band 38	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	38000	2595	1	17.80	19.10	1.349			0.02	0.914	**1.233**	—
	LTE Band 38	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	37850	2580	1	17.75	19.10	1.365			0.03	0.875	1.194	—
	LTE Band 38	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	38150	2610	1	17.54	19.10	1.432			0.04	0.826	1.183	—
	LTE Band 38	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	38000	2595	1	17.59	19.10	1.416			0.05	0.712	1.008	—
	LTE Band 38	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	37850	2580	1	17.40	19.10	1.479			0.06	0.689	1.019	—
	LTE Band 38	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 1	DSI 2	38150	2610	1	17.51	19.10	1.442			0.01	0.656	0.946	—
	LTE Band 38	20M	QPSK	100	0	—	Right Tilted	0mm	Ant 1	DSI 2	38000	2595	1	17.53	19.10	1.435			0.06	0.710	1.019	—
	LTE Band 38	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 1	DSI 2	38000	2595	1	17.80	19.10	1.349			0.02	0.530	0.715	—
	LTE Band 38	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 1	DSI 2	38000	2595	1	17.59	19.10	1.416			0.02	0.427	0.605	—
	LTE Band 38	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	38000	2595	1	17.80	19.10	1.349			0.02	0.612	0.826	—
	LTE Band 38	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	37850	2580	1	17.75	19.10	1.365			0.03	0.598	0.816	—
	LTE Band 38	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 1	DSI 2	38150	2610	1	17.54	19.10	1.432			0.04	0.566	0.811	—
	LTE Band 38	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 1	DSI 2	38000	2595	1	17.59	19.10	1.416			-0.05	0.490	0.694	—
	LTE Band 38	20M	QPSK	100	0	—	Left Tilted	0mm	Ant 1	DSI 2	38000	2595	1	17.53	19.10	1.435			-0.06	0.487	0.699	—
Simultaneous	LTE Band 38	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 1	DSI 2	38000	2595	1	16.46	17.80	1.361			0.06	0.728	0.991	—

SAR Test Record

Head SAR Test

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
3500MHz																						
	LTE Band 42	20M	QPSK	1	0	—	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	15.68	16.50	1.208	62.9	1.006	0.02	0.251	0.305	—
	LTE Band 42	20M	QPSK	50	0	—	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	15.63	16.50	1.222	62.9	1.006	0.02	0.201	0.247	—
	LTE Band 42	20M	QPSK	1	0	—	Right Tilted	0mm	Ant 4	DSI 2	42590	3500	1	15.68	16.50	1.208	62.9	1.006	-0.06	0.253	0.307	—
	LTE Band 42	20M	QPSK	50	0	—	Right Tilted	0mm	Ant 4	DSI 2	42590	3500	1	15.63	16.50	1.222	62.9	1.006	0.05	0.204	0.251	—
19	LTE Band 42	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	15.68	16.50	1.208	62.9	1.006	0.02	1.040	**1.264**	1
Repeated	LTE Band 42	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	15.68	16.50	1.208	62.9	1.006	0.05	0.996	1.210	1.044
	LTE Band 42	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 4	DSI 2	42190	3460	1	15.61	16.50	1.227	62.9	1.006	0.03	0.963	1.189	—
	LTE Band 42	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 4	DSI 2	42990	3540	1	15.57	16.50	1.239	62.9	1.006	-0.05	0.866	1.079	—
	LTE Band 42	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	15.63	16.50	1.222	62.9	1.006	0.05	0.853	1.048	—
	LTE Band 42	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 4	DSI 2	42190	3460	1	15.58	16.50	1.236	62.9	1.006	0.03	0.812	1.010	—
	LTE Band 42	20M	QPSK	50	0	—	Left Cheek	0mm	Ant 4	DSI 2	42990	3540	1	15.43	16.50	1.279	62.9	1.006	-0.05	0.825	1.062	—
	LTE Band 42	20M	QPSK	100	0	—	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	15.59	16.50	1.233	62.9	1.006	0.05	0.701	0.870	—
	LTE Band 42	20M	QPSK	1	0	—	Left Tilted	0mm	Ant 4	DSI 2	42590	3500	1	15.68	16.50	1.208	62.9	1.006	0.02	0.488	0.593	—
	LTE Band 42	20M	QPSK	50	0	—	Left Tilted	0mm	Ant 4	DSI 2	42590	3500	1	15.63	16.50	1.222	62.9	1.006	-0.05	0.394	0.484	—
Simultaneous	LTE Band 42	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	14.38	15.20	1.208	62.9	1.006	0.06	0.639	0.776	—
	LTE Band 42	20M	QPSK	1	0	—	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	2	15.68	16.50	1.208	62.9	1.006	0.09	0.555	0.674	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	14.23	15.30	1.279			0.02	0.615	0.787	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	14.11	15.30	1.315			0.07	0.592	0.779	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	14.23	15.30	1.279			0.05	0.622	0.796	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	14.11	15.30	1.315			0.02	0.608	0.800	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	14.03	15.30	1.340			-0.06	0.596	0.798	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	14.23	15.30	1.279			0.06	0.853	1.091	—
20	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	14.11	15.30	1.315			-0.05	0.955	**1.256**	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	14.03	15.30	1.340			0.05	0.894	1.198	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	14.23	15.30	1.279			0.02	0.871	1.114	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	14.11	15.30	1.315			-0.06	0.829	1.090	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	14.03	15.30	1.340			0.06	0.820	1.099	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	12.81	14.00	1.315			0.05	0.712	0.936	—
SRS	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	12.39	13.30	1.233			0.01	0.609	0.751	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	12.35	13.30	1.245			0.03	0.595	0.740	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	12.39	13.30	1.233			0.05	0.220	0.271	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	12.35	13.30	1.245			0.02	0.224	0.279	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	12.39	13.30	1.233			0.06	0.128	0.158	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	12.35	13.30	1.245			0.03	0.130	0.162	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	12.39	13.30	1.233			0.05	0.100	0.123	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	12.35	13.30	1.245			0.02	0.104	0.129	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	10.97	12.00	1.268			0.06	0.459	0.582	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	2	12.39	13.30	1.233			0.03	0.554	0.683	—
SRS	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	22.75	24.00	1.334			-0.05	0.132	0.176	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	22.57	24.00	1.390			0.05	0.141	0.196	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	22.75	24.00	1.334			0.02	0.176	0.235	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	22.57	24.00	1.390			-0.06	0.142	0.197	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	22.75	24.00	1.334			0.06	0.198	0.264	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	22.57	24.00	1.390			0.01	0.226	0.314	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	22.75	24.00	1.334			0.02	0.105	0.140	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	22.57	24.00	1.390			0.03	0.092	0.128	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	2	22.57	24.00	1.390			0.06	0.145	0.202	—
SRS	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	20.03	21.20	1.309			0.06	0.733	0.960	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	19.97	21.20	1.327			0.01	0.864	1.147	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	19.95	21.20	1.334			0.04	0.787	1.049	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	20.03	21.20	1.309			-0.02	0.801	1.049	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	19.97	21.20	1.327			0.09	0.946	1.256	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	19.95	21.20	1.334			-0.05	0.921	1.228	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	20.03	21.20	1.309			0.05	0.437	0.572	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	19.97	21.20	1.327			0.02	0.542	0.719	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	20.03	21.20	1.309			0.06	0.487	0.638	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	19.97	21.20	1.327			0.02	0.605	0.803	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	18.69	19.90	1.321			0.02	0.684	0.904	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	2	19.97	21.20	1.327			0.04	0.361	0.479	—
WLAN/BT																						
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Right Cheek	0mm	Ant 3+5	Receiver on	11	2462	1	18.29	20.00	1.483	94.58	1.057	0.06	0.357	0.559	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Right Tilted	0mm	Ant 3+5	Receiver on	11	2462	1	18.29	20.00	1.483	94.58	1.057	0.04	0.321	0.503	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	11	2462	1	18.29	20.00	1.483	94.58	1.057	0.05	0.755	1.183	—
21	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	1	2412	1	18.28	20.00	1.487	94.58	1.057	0.03	0.836	**1.314**	1
Repeated	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	1	2412	1	18.28	20.00	1.487	94.58	1.057	0.09	0.808	1.270	1.035
	WLAN2.4GHz	—	—	—	—	802.11g 6Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	11	2462	1	18.47	20.00	1.423	94.2	1.062	0.06	0.736	1.112	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	6	2437	1	18.13	20.00	1.538	94.58	1.057	0.06	0.735	1.195	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Tilted	0mm	Ant 3+5	Receiver on	11	2462	1	18.29	20.00	1.483	94.58	1.057	-0.01	0.462	0.724	—
Simultaneous	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	1	2412	1	14.34	16.00	1.466	94.58	1.057	-0.05	0.229	0.355	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Left Cheek	0mm	Ant 3+5	Receiver on	1	2412	2	18.28	20.00	1.487	94.58	1.057	0.03	0.671	1.055	—
	Bluetooth	—	—	—	—	1Mbps	Right Cheek	0mm	Ant 3	Receiver on	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.06	0.066	0.100	—
	Bluetooth	—	—	—	—	1Mbps	Right Tilted	0mm	Ant 3	Receiver on	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.09	0.065	0.099	—
22	Bluetooth	—	—	—	—	1Mbps	Left Cheek	0mm	Ant 3	Receiver on	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.03	0.172	**0.261**	—
	Bluetooth	—	—	—	—	1Mbps	Left Tilted	0mm	Ant 3	Receiver on	39	2441	1	10.83	11.50	1.167	76.79	1.302	-0.02	0.116	0.176	—
	Bluetooth	—	—	—	—	1Mbps	Right Cheek	0mm	Ant 5	Receiver on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.03	0.039	0.065	—
	Bluetooth	—	—	—	—	1Mbps	Right Tilted	0mm	Ant 5	Receiver on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.01	0.033	0.055	—
	Bluetooth	—	—	—	—	1Mbps	Left Cheek	0mm	Ant 5	Receiver on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.05	0.131	0.219	—
	Bluetooth	—	—	—	—	1Mbps	Left Tilted	0mm	Ant 5	Receiver on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.06	0.070	0.117	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+6	Receiver on	54	5270	1	19.21	20.50	1.346	93.98	1.064	-0.06	0.201	0.288	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+6	Receiver on	54	5270	1	19.21	20.50	1.346	93.98	1.064	0.06	0.192	0.275	—
23	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	54	5270	1	19.21	20.50	1.346	93.98	1.064	-0.05	0.764	**1.094**	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	62	5310	1	18.67	20.00	1.358	93.98	1.064	0.05	0.649	0.938	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+6	Receiver on	54	5270	1	19.21	20.50	1.346	93.98	1.064	0.02	0.472	0.676	—
Simultaneous	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	54	5270	1	14.14	15.50	1.368	93.98	1.064	0.03	0.175	0.255	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	54	5270	2	19.21	20.50	1.346	93.98	1.064	0.04	0.435	0.623	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Receiver on	122	5610	1	18.05	19.50	1.396	93.40	1.071	0.06	0.240	0.359	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Receiver on	122	5610	1	18.05	19.50	1.396	93.40	1.071	0.01	0.246	0.368	—
24	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	122	5610	1	18.05	19.50	1.396	93.40	1.071	-0.02	0.751	**1.123**	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	138	5690	1	19.01	19.50	1.119	93.40	1.071	0.06	0.714	0.856	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	Receiver on	122	5610	1	18.05	19.50	1.396	93.40	1.071	0.09	0.519	0.776	—
Simultaneous	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	122	5610	1	15.32	16.00	1.169	93.40	1.071	0.03	0.215	0.269	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	122	5610	2	18.05	19.50	1.396	93.40	1.071	0.06	0.420	0.628	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Receiver on	155	5775	1	18.07	19.50	1.390	93.4	1.071	0.09	0.240	0.357	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Receiver on	155	5775	1	18.07	19.50	1.390	93.4	1.071	0.02	0.249	0.371	—
25	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	155	5775	1	18.07	19.50	1.390	93.4	1.071	-0.05	0.764	**1.137**	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	Receiver on	155	5775	1	18.07	19.50	1.390	93.4	1.071	0.04	0.453	0.674	—
Simultaneous	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	155	5775	1	13.75	15.50	1.496	93.4	1.071	0.03	0.168	0.269	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Receiver on	155	5775	2	18.07	19.50	1.390	93.4	1.071	0.09	0.472	0.703	—

SAR Test Record

Body SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
750MHz																							
	LTE Band 12	10M	QPSK	1	0	—	Front	5mm	Ant 1		DSI 3	23095	707.5	1	24.61	25.00	1.094			0.01	0.180	0.197	—
	LTE Band 12	10M	QPSK	25	0	—	Front	5mm	Ant 1		DSI 3	23095	707.5	1	23.65	24.00	1.084			0.05	0.182	0.197	—
26	LTE Band 12	10M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	23095	707.5	1	24.61	25.00	1.094			0.02	0.436	**0.477**	—
	LTE Band 12	10M	QPSK	25	0	—	Back	5mm	Ant 1		DSI 3	23095	707.5	1	23.65	24.00	1.084			0.06	0.414	0.449	—
	LTE Band 12	10M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	23095	707.5	2	24.61	25.00	1.094			0.03	0.428	0.468	—
						—																	
	LTE Band 13	10M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	23230	782	1	24.31	25.00	1.172			0.02	0.705	0.826	—
	LTE Band 13	10M	QPSK	25	0	—	Front	5mm	Ant 0		DSI 3	23230	782	1	23.33	24.00	1.167			-0.06	0.613	0.715	—
	LTE Band 13	10M	QPSK	50	0	—	Front	5mm	Ant 0		DSI 3	23230	782	1	23.24	24.00	1.191			0.03	0.608	0.724	—
27	LTE Band 13	10M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	23230	782	1	24.31	25.00	1.172			-0.03	0.967	**1.134**	1
Repeated	LTE Band 13	10M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	23230	782	1	24.31	25.00	1.172			0.02	0.942	1.104	1.027
	LTE Band 13	10M	QPSK	25	0	—	Back	5mm	Ant 0		DSI 3	23230	782	1	23.33	24.00	1.167			-0.01	0.865	1.009	—
	LTE Band 13	10M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	23230	782	1	23.24	24.00	1.191			0.06	0.815	0.971	—
Simultaneous	LTE Band 13	10M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	23230	782	1	22.94	24.10	1.306			-0.03	0.739	0.965	—
	LTE Band 13	10M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	23230	782	2	24.31	25.00	1.172			0.03	0.590	0.692	—
835MHz																							
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Front	5mm	Ant 0		DSI 3	189	836.4	1	28.76	29.70	1.242			0.03	0.526	0.653	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	189	836.4	1	28.76	29.70	1.242			0.05	0.820	1.018	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	128	824.2	1	28.51	29.70	1.315			0.01	0.875	1.151	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	251	848.8	1	28.72	29.70	1.253			0.05	0.800	1.003	—
Simultaneous	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	128	824.2	1	27.14	28.40	1.337			0.01	0.670	0.896	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Front	17mm	Ant 0		DSI 4	128	824.2	1	29.71	30.90	1.315			0.03	0.283	0.372	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	23mm	Ant 0		DSI 4	128	824.2	1	29.71	30.90	1.315			0.05	0.253	0.333	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	4182	836.4	1	23.02	23.50	1.117			0.02	0.653	0.729	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	4182	836.4	1	23.02	23.50	1.117			-0.01	1.090	1.217	1
Repeated	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	4182	836.4	1	23.02	23.50	1.117			0.04	0.998	1.115	1.092
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	4132	826.4	1	23.01	23.50	1.119			0.05	1.062	1.189	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	4233	846.6	1	22.99	23.50	1.125			0.02	0.926	1.041	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	4182	836.4	1	23.02	23.50	1.117			0.06	0.538	0.601	—
Simultaneous	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	4182	836.4	1	21.64	22.20	1.138			0.05	0.728	0.828	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Front	17mm	Ant 0		DSI 4	4182	836.4	1	23.72	24.00	1.067			0.03	0.207	0.221	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	23mm	Ant 0		DSI 4	4182	836.4	1	23.72	24.00	1.067			0.01	0.199	0.212	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	4182	836.4	2	23.02	23.50	1.117			0.03	0.390	0.436	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1		DSI 3	167300	836.5	1	22.15	23.50	1.365			0.02	0.544	0.742	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1		DSI 3	167300	836.5	1	22.06	23.50	1.393			-0.01	0.503	0.701	—
28	FR1 n5	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	167300	836.5	1	22.15	23.50	1.365			0.05	0.915	**1.249**	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	166800	834	1	22.09	23.50	1.384			0.06	0.867	1.200	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	167800	839	1	22.13	23.50	1.371			0.01	0.897	1.230	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	167300	836.5	1	22.06	23.50	1.393			0.02	0.881	1.227	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	166800	834	1	21.94	23.50	1.432			0.03	0.832	1.192	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	167800	839	1	22.04	23.50	1.400			0.09	0.820	1.148	—
	FR1 n5	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1		DSI 3	167300	836.5	1	21.57	23.00	1.390			0.06	0.852	1.184	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Headset	DSI 3	167300	836.5	1	22.15	23.50	1.365			0.05	0.598	0.816	—
Simultaneous	FR1 n5	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	167300	836.5	1	21.22	22.20	1.253			0.02	0.678	0.850	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	17mm	Ant 1		DSI 4	167300	836.5	1	22.58	24.00	1.387			0.06	0.16	0.222	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	23mm	Ant 1		DSI 4	167300	836.5	1	22.58	24.00	1.387			0.01	0.146	0.202	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Front	5mm	Ant 1		DSI 3	189	836.4	1	27.87	29.00	1.297			0.03	0.553	0.717	—
29	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 1		DSI 3	189	836.4	1	27.87	29.00	1.297			0.01	0.949	**1.231**	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 1		DSI 3	128	824.2	1	27.75	29.00	1.334			0.05	0.783	1.044	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 1		DSI 3	251	848.8	1	27.73	29.00	1.340			0.02	0.735	0.985	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 1	Headset	DSI 3	189	836.4	1	27.87	29.00	1.297			0.03	0.923	1.197	—
Simultaneous	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 1		DSI 3	189	836.4	1	26.86	27.70	1.213			0.01	0.651	0.790	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Front	17mm	Ant 1		DSI 4	189	836.4	1	29.13	30.90	1.503			0.06	0.335	0.504	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	23mm	Ant 1		DSI 4	189	836.4	1	29.13	30.90	1.503			0.01	0.291	0.437	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 1		DSI 3	4182	836.4	1	21.75	23.40	1.462			0.02	0.415	0.607	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1		DSI 3	4182	836.4	1	21.75	23.40	1.462			0.02	0.836	1.222	—
30	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1		DSI 3	4132	826.4	1	21.72	23.40	1.472			-0.06	0.852	**1.254**	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1		DSI 3	4233	846.6	1	21.66	23.40	1.493			0.06	0.820	1.224	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	DSI 3	4132	826.4	1	21.72	23.40	1.472			-0.03	0.836	1.231	—
Simultaneous	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1		DSI 3	4132	826.4	1	20.48	22.10	1.452			0.02	0.612	0.889	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Front	17mm	Ant 1		DSI 4	4132	826.4	1	22.70	24.00	1.349			0.06	0.268	0.362	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	23mm	Ant 1		DSI 4	4132	826.4	1	22.70	24.00	1.349			0.01	0.250	0.337	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1		DSI 3	4132	826.4	2	21.72	23.40	1.472			0.01	0.747	1.100	—
	LTE Band 26	15M	QPSK	1	0	—	Front	5mm	Ant 1		DSI 3	26865	831.5	1	21.86	22.50	1.159			0.01	0.569	0.659	—
31	LTE Band 26	15M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	26865	831.5	1	21.86	22.50	1.159			0.08	1.080	**1.251**	—
	LTE Band 26	15M	QPSK	36	0	—	Back	5mm	Ant 1		DSI 3	26865	831.5	1	21.00	22.50	1.413			0.02	0.871	1.230	—
	LTE Band 26	15M	QPSK	75	0	—	Back	5mm	Ant 1		DSI 3	26865	831.5	1	20.92	22.50	1.439			0.06	0.858	1.234	—
	LTE Band 26	15M	QPSK	1	0	—	Back	5mm	Ant 1	Headset	DSI 3	26865	831.5	1	21.86	22.50	1.159			0.03	0.987	1.144	—
Simultaneous	LTE Band 26	15M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	26865	831.5	1	20.49	21.20	1.178			0.02	0.741	0.873	—
	LTE Band 26	15M	QPSK	1	0	—	Front	17mm	Ant 1		DSI 4	26865	831.5	1	22.47	24.00	1.422			0.09	0.182	0.259	—
	LTE Band 26	15M	QPSK	1	0	—	Back	23mm	Ant 1		DSI 4	26865	831.5	1	22.47	24.00	1.422			0.06	0.174	0.247	—
1750MHz																							
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	1413	1732.6	1	17.78	18.50	1.180			0.02	0.687	0.811	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	1312	1712.4	1	17.69	18.50	1.205			-0.06	0.691	0.833	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	1513	1752.6	1	17.74	18.50	1.191			0.01	0.754	0.898	—
32	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	1413	1732.6	1	17.78	18.50	1.180			0.03	1.060	**1.251**	1
Repeated	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	1413	1732.6	1	17.78	18.50	1.180			0.09	0.987	1.165	1.074
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	1312	1712.4	1	17.69	18.50	1.205			0.05	0.967	1.165	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	1513	1752.6	1	17.74	18.50	1.191			0.02	0.998	1.189	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	1413	1732.6	1	17.78	18.50	1.180			0.06	1.005	1.186	—
Simultaneous	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	1413	1732.6	1	13.55	14.60	1.274			0.03	0.431	0.549	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	17mm	Ant 0		DSI 4	1413	1732.6	1	23.06	24.00	1.242			0.08	0.785	0.975	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	23mm	Ant 0		DSI 4	1413	1732.6	1	23.06	24.00	1.242			0.03	0.527	0.654	—
	LTE Band 66	20M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	132322	1745	1	17.71	18.40	1.172			0.02	0.697	0.817	—
	LTE Band 66	20M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	132072	1720	1	17.69	18.40	1.178			0.06	0.609	0.717	—
	LTE Band 66	20M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	132572	1770	1	17.63	18.40	1.194			0.02	0.640	0.764	—
	LTE Band 66	20M	QPSK	50	0	—	Front	5mm	Ant 0		DSI 3	132322	1745	1	17.62	18.40	1.197			0.01	0.657	0.786	—
	LTE Band 66	20M	QPSK	100	0	—	Front	5mm	Ant 0		DSI 3	132322	1745	1	17.51	18.40	1.227			0.02	0.618	0.759	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	132322	1745	1	17.71	18.40	1.172			0.02	1.050	1.231	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	132072	1720	1	17.69	18.40	1.178			0.06	0.922	1.086	—
33	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	132572	1770	1	17.63	18.40	1.194			-0.04	1.050	**1.254**	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	132322	1745	1	17.62	18.40	1.197			0.01	0.822	0.984	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	132072	1720	1	17.54	18.40	1.219			0.03	0.837	1.020	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	132572	1770	1	17.51	18.40	1.227			0.02	0.962	1.181	—
	LTE Band 66	20M	QPSK	100	0	—	Back	5mm	Ant 0		DSI 3	132322	1745	1	17.51	18.40	1.227			-0.06	0.916	1.124	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0	Headset	DSI 3	132572	1770	1	17.63	18.40	1.194			-0.01	0.405	0.484	—
Simultaneous	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	132572	1770	1	13.65	14.70	1.274			-0.04	0.438	0.558	—
	LTE Band 66	20M	QPSK	1	0	—	Front	17mm	Ant 0		DSI 4	132572	1770	1	22.58	24.00	1.387			0.03	0.69	0.957	—
	LTE Band 66	20M	QPSK	1	0	—	Back	23mm	Ant 0		DSI 4	132572	1770	1	22.58	24.00	1.387			-0.05	0.529	0.734	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	132572	1770	2	17.63	18.40	1.194			0.02	0.335	0.400	—

SAR Test Record

Body SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1750MHz																							
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0		DSI 3	349000	1745	1	18.12	18.90	1.197			0.02	0.693	0.829	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0		DSI 3	346000	1730	1	18.09	18.90	1.205			-0.06	0.694	0.836	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0		DSI 3	352000	1760	1	17.96	18.90	1.242			-0.01	0.725	0.900	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0		DSI 3	349000	1745	1	18.10	18.90	1.202			0.01	0.615	0.739	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0		DSI 3	349000	1745	1	18.11	18.90	1.199			-0.01	0.538	0.645	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	346000	1730	1	18.09	18.90	1.205			0.02	0.862	1.039	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	352000	1760	1	17.96	18.90	1.242			0.03	0.924	1.147	—
34	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	349000	1745	1	18.12	18.90	1.197			-0.02	1.040	**1.245**	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	349000	1745	1	18.10	18.90	1.202			0.02	0.906	1.089	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	346000	1730	1	18.05	18.90	1.216			0.05	0.814	0.990	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	352000	1760	1	17.93	18.90	1.250			0.07	0.847	1.059	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0		DSI 3	349000	1745	1	18.11	18.90	1.199			-0.03	0.845	1.014	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Headset	DSI 3	349000	1745	1	18.12	18.90	1.197			-0.06	0.847	1.014	—
Simultaneous	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	349000	1745	1	14.28	15.30	1.265			-0.02	0.512	0.648	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	17mm	Ant 0		DSI 4	349000	1745	1	22.28	24.00	1.486			0.02	0.492	0.731	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	23mm	Ant 0		DSI 4	349000	1745	1	22.28	24.00	1.486			0.04	0.336	0.499	—
	LTE Band 66	20M	QPSK	1	0	—	Front	5mm	Ant 1		DSI 3	132322	1745	1	16.50	17.60	1.288			0.03	0.468	0.603	—
	LTE Band 66	20M	QPSK	50	0	—	Front	5mm	Ant 1		DSI 3	132322	1745	1	16.44	17.60	1.306			0.02	0.424	0.554	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	132322	1745	1	16.50	17.60	1.288			0.05	0.924	1.190	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	132072	1720	1	16.44	17.60	1.306			0.02	0.895	1.169	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	132572	1770	1	16.44	17.60	1.306			-0.01	0.942	1.230	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	132322	1745	1	16.44	17.60	1.306			0.03	0.624	0.815	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	132072	1720	1	16.36	17.60	1.330			-0.02	0.534	0.710	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	132572	1770	1	16.37	17.60	1.327			0.02	0.645	0.856	—
	LTE Band 66	20M	QPSK	100	0	—	Back	5mm	Ant 1		DSI 3	132322	1745	1	16.30	17.60	1.349			0.05	0.634	0.855	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1	Headset	DSI 3	132572	1770	1	16.44	17.60	1.306			0.07	0.776	1.014	—
Simultaneous	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	132572	1770	1	15.14	16.30	1.306			0.02	0.683	0.892	—
	LTE Band 66	20M	QPSK	1	0	—	Front	17mm	Ant 1		DSI 4	132572	1770	1	22.47	24.00	1.422			0.01	0.259	0.368	—
	LTE Band 66	20M	QPSK	1	0	—	Back	23mm	Ant 1		DSI 4	132572	1770	1	22.47	24.00	1.422			0.06	0.264	0.375	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1		DSI 3	349000	1745	1	16.96	17.70	1.186			-0.05	0.366	0.434	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1		DSI 3	349000	1745	1	16.90	17.70	1.202			-0.06	0.380	0.457	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	349000	1745	1	16.96	17.70	1.186			0.02	0.832	0.987	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	346000	1730	1	16.88	17.70	1.208			0.01	0.845	1.021	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	352000	1760	1	16.77	17.70	1.239			0.06	0.881	1.091	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1		DSI 3	349000	1745	1	16.90	17.70	1.202			-0.07	1.030	1.238	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1		DSI 3	346000	1730	1	16.87	17.70	1.211			-0.01	0.954	1.155	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1		DSI 3	352000	1760	1	16.71	17.70	1.256			0.09	0.939	1.179	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1		DSI 3	349000	1745	1	16.83	17.70	1.222			-0.01	0.834	1.019	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	Headset	DSI 3	349000	1745	1	16.90	17.70	1.202			0.06	0.987	1.187	—
Simultaneous	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1		DSI 3	349000	1745	1	15.50	16.40	1.230			0.02	0.662	0.814	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	17mm	Ant 1		DSI 4	349000	1745	1	22.14	24.00	1.535			0.06	0.195	0.299	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	23mm	Ant 1		DSI 4	349000	1745	1	22.14	24.00	1.535			-0.03	0.200	0.307	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1		DSI 3	349000	1745	2	16.90	17.70	1.202			0.03	0.955	1.148	—
1900MHz																							
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Front	5mm	Ant 0		DSI 3	661	1880	1	24.46	25.30	1.213			-0.05	0.600	0.728	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	661	1880	1	24.46	25.30	1.213			0.02	0.981	1.190	—
35	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	512	1850.2	1	24.23	25.30	1.279			-0.06	0.991	**1.268**	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	810	1909.8	1	24.44	25.30	1.219			-0.06	0.918	1.119	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	512	1850.2	1	24.23	25.30	1.279			-0.03	0.807	1.032	—
Simultaneous	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	512	1850.2	1	20.05	21.40	1.365			-0.06	0.327	0.446	—
	GSM1900	—	—	—	—	GPRS (3 Tx slot)	Front	17mm	Ant 0		DSI 4	512	1850.2	1	25.81	27.40	1.442			0.02	0.357	0.515	—
	GSM1900	—	—	—	—	GPRS (3 Tx slot)	Back	23mm	Ant 0		DSI 4	512	1850.2	1	25.81	27.40	1.442			-0.06	0.264	0.381	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0		DSI 3	512	1850.2	2	24.23	25.30	1.279			0.04	0.949	1.214	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	9400	1880	1	18.61	19.40	1.199			-0.06	0.683	0.819	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	9262	1852.4	1	18.53	19.40	1.222			-0.06	0.774	0.946	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0		DSI 3	9538	1907.6	1	18.56	19.40	1.213			-0.03	0.692	0.840	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	9400	1880	1	18.61	19.40	1.199			-0.06	0.887	1.064	—
36	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	9262	1852.4	1	18.53	19.40	1.222			-0.04	1.010	**1.234**	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	9538	1907.6	1	18.56	19.40	1.213			0.01	0.952	1.155	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	9262	1852.4	1	18.53	19.40	1.222			0.02	0.968	1.183	—
Simultaneous	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0		DSI 3	9262	1852.4	1	13.55	14.80	1.334			-0.04	0.387	0.516	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	17mm	Ant 0		DSI 4	9262	1852.4	1	22.67	24.00	1.358			0.02	0.619	0.841	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	23mm	Ant 0		DSI 4	9262	1852.4	1	22.67	24.00	1.358			0.04	0.419	0.569	—
	LTE Band 2	20M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	18900	1880	1	18.45	19.10	1.161			0.02	0.467	0.542	—
	LTE Band 2	20M	QPSK	50	0	—	Front	5mm	Ant 0		DSI 3	18900	1880	1	18.39	19.10	1.178			-0.03	0.358	0.422	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	18900	1880	1	18.45	19.10	1.161			-0.06	0.792	0.920	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	18700	1860	1	18.41	19.10	1.172			0.06	0.893	1.047	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	19100	1900	1	18.40	19.10	1.175			-0.06	0.723	0.849	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	18900	1880	1	18.39	19.10	1.178			-0.03	0.731	0.861	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	18700	1860	1	18.31	19.10	1.199			0.02	0.702	0.842	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	19100	1900	1	18.29	19.10	1.205			0.09	0.713	0.859	—
	LTE Band 2	20M	QPSK	100	0	—	Back	5mm	Ant 0		DSI 3	18900	1880	1	18.35	19.10	1.189			-0.04	0.701	0.833	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 0	Headset	DSI 3	18700	1860	1	18.41	19.10	1.172			0.02	0.233	0.273	—
Simultaneous	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	18700	1860	1	12.77	13.80	1.268			0.06	0.489	0.620	—
	LTE Band 2	20M	QPSK	1	0	—	Front	17mm	Ant 0		DSI 4	18700	1860	1	22.25	24.00	1.496			0.03	0.451	0.675	—
	LTE Band 2	20M	QPSK	1	0	—	Back	23mm	Ant 0		DSI 4	18700	1860	1	22.25	24.00	1.496			0.06	0.413	0.618	—
	LTE Band 2	20M	QPSK	1	0	—	Front	5mm	Ant 1		DSI 3	18900	1880	1	18.45	19.10	1.161			-0.06	0.383	0.445	—
	LTE Band 2	20M	QPSK	50	0	—	Front	5mm	Ant 1		DSI 3	18900	1880	1	18.39	19.10	1.178			-0.03	0.253	0.298	—
37	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	18900	1880	1	18.45	19.10	1.161			-0.06	1.060	**1.231**	1
Repeated	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	18900	1880	1	18.45	19.10	1.161			0.01	0.985	1.144	1.076
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	18700	1860	1	18.41	19.10	1.172			-0.03	1.022	1.198	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	19100	1900	1	18.40	19.10	1.175			0.02	0.966	1.135	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	18900	1880	1	18.39	19.10	1.178			-0.03	0.886	1.043	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	18700	1860	1	18.31	19.10	1.199			-0.06	0.857	1.028	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	19100	1900	1	18.29	19.10	1.205			-0.04	0.824	0.993	—
	LTE Band 2	20M	QPSK	100	0	—	Back	5mm	Ant 1		DSI 3	18900	1880	1	18.35	19.10	1.189			0.02	0.942	1.120	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1	Headset	DSI 3	18900	1880	1	18.45	19.10	1.161			-0.06	0.942	1.094	—
Simultaneous	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	18900	1880	1	17.21	17.80	1.146			-0.03	0.531	0.608	—
	LTE Band 2	20M	QPSK	1	0	—	Front	17mm	Ant 1		DSI 4	18900	1880	1	22.56	24.00	1.393			0.09	0.181	0.252	—
	LTE Band 2	20M	QPSK	1	0	—	Back	23mm	Ant 1		DSI 4	18900	1880	1	22.56	24.00	1.393			-0.01	0.201	0.280	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1		DSI 3	376000	1880	1	18.44	19.20	1.191			-0.03	0.358	0.426	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1		DSI 3	376000	1880	1	18.40	19.20	1.202			-0.03	0.374	0.450	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	376000	1880	1	18.44	19.20	1.191			0.02	0.743	0.885	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	372000	1860	1	18.33	19.20	1.222			-0.03	0.731	0.893	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1		DSI 3	380000	1900	1	18.25	19.20	1.245			-0.06	0.928	1.155	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	376000	1880	1	18.40	19.20	1.202			-0.04	0.704	0.846	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	372000	1860	1	18.35	19.20	1.216			0.02	0.835	1.016	—
38	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	380000	1900	1	18.25	19.20	1.245			-0.03	0.993	**1.236**	—
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1		DSI 3	376000	1880	1	18.36	19.20	1.213			0.03	0.731	0.887	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	Headset	DSI 3	380000	1900	1	18.25	19.20	1.245			0.05	0.895	1.114	—
Simultaneous	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	380000	1900	1	16.93	17.90	1.250			-0.06	0.717	0.896	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	17mm	Ant 1		DSI 4	380000	1900	1	22.36	24.00	1.459			0.02	0.207	0.302	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	23mm	Ant 1		DSI 4	380000	1900	1	22.36	24.00	1.459			-0.003	0.258	0.376	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1		DSI 3	380000	1900	2	18.25	19.20	1.245			0.03	0.828	1.030	—

SAR Test Record

Body SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
2600MHz																							
	LTE Band 7	20M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	21100	2535	1	17.72	18.80	1.282			0.02	0.549	0.704	—
	LTE Band 7	20M	QPSK	50	0	—	Front	5mm	Ant 0		DSI 3	21100	2535	1	17.64	18.80	1.306			-0.04	0.465	0.607	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	21100	2535	1	17.72	18.80	1.282			-0.03	0.851	1.091	—
39	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	20850	2510	1	17.51	18.80	1.346			-0.03	0.935	**1.258**	—
UL CA	LTE Band 7	20M	QPSK	1	99	—	Back	5mm	Ant 0		DSI 3	21100+21298	2535+2554.8	1	17.42	18.80	1.374			0.02	0.896	1.231	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	21350	2560	1	17.66	18.80	1.300			-0.06	0.906	1.178	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	21100	2535	1	17.64	18.80	1.306			-0.03	0.735	0.960	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	20850	2510	1	17.61	18.80	1.315			0.06	0.689	0.906	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	21350	2560	1	17.52	18.80	1.343			0.01	0.706	0.948	—
	LTE Band 7	20M	QPSK	100	0	—	Back	5mm	Ant 0		DSI 3	21100	2535	1	17.50	18.80	1.349			-0.03	0.672	0.907	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 0	Headset	DSI 3	20850	2510	1	17.51	18.80	1.346			-0.06	0.302	0.406	—
Simultaneous	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	20850	2510	1	14.57	15.20	1.156			-0.03	0.556	0.643	—
	LTE Band 7	20M	QPSK	1	0	—	Front	17mm	Ant 0		DSI 4	20850	2510	1	22.75	24.00	1.334			0.03	0.467	0.623	—
	LTE Band 7	20M	QPSK	1	0	—	Back	23mm	Ant 0		DSI 4	20850	2510	1	22.75	24.00	1.334			0.01	0.325	0.433	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0		DSI 3	507000	2535	1	18.03	19.10	1.279			0.06	0.482	0.617	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0		DSI 3	507000	2535	1	17.94	19.10	1.306			-0.03	0.538	0.703	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	507000	2535	1	18.03	19.10	1.279			-0.06	0.793	1.015	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	504000	2520	1	17.84	19.10	1.337			0.02	0.856	1.144	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0		DSI 3	510000	2550	1	17.76	19.10	1.361			-0.06	0.829	1.129	—
40	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	507000	2535	1	17.94	19.10	1.306			-0.06	0.948	**1.238**	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	504000	2520	1	17.85	19.10	1.334			-0.03	0.773	1.031	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	510000	2550	1	17.79	19.10	1.352			-0.03	0.721	0.975	—
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0		DSI 3	507000	2535	1	17.90	19.10	1.318			0.03	0.801	1.056	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	Headset	DSI 3	507000	2535	1	17.94	19.10	1.306			-0.03	0.562	0.734	—
Simultaneous	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0		DSI 3	507000	2535	1	14.90	16.00	1.288			-0.06	0.453	0.584	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	17mm	Ant 0		DSI 4	507000	2535	1	23.22	24.00	1.197			0.02	0.392	0.469	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	23mm	Ant 0		DSI 4	507000	2535	1	23.22	24.00	1.197			-0.04	0.255	0.305	—
	LTE Band 41	20M	QPSK	1	0	—	Front	5mm	Ant 0		DSI 3	40620	2593	1	19.60	21.10	1.413	62.9	1.006	-0.03	0.483	0.686	—
	LTE Band 41	20M	QPSK	50	0	—	Front	5mm	Ant 0		DSI 3	40620	2593	1	19.56	21.10	1.426	62.9	1.006	-0.03	0.416	0.597	—
41	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	40620	2593	1	19.60	21.10	1.413	62.9	1.006	-0.04	0.898	**1.276**	—
	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	39750	2506	1	19.39	21.10	1.483	62.9	1.006	-0.06	0.843	1.257	—
	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	40185	2549.5	1	19.39	21.10	1.483	62.9	1.006	-0.03	0.788	1.175	—
	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	41055	2636.5	1	19.42	21.10	1.472	62.9	1.006	-0.06	0.749	1.109	—
	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	41490	2680	1	19.41	21.10	1.476	62.9	1.006	0.02	0.762	1.131	—
	LTE Band 41	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	40620	2593	1	19.56	21.10	1.426	62.9	1.006	-0.06	0.802	1.150	—
	LTE Band 41	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	39750	2506	1	19.36	21.10	1.493	62.9	1.006	-0.06	0.799	1.200	—
	LTE Band 41	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	40185	2549.5	1	19.45	21.10	1.462	62.9	1.006	-0.03	0.814	1.197	—
	LTE Band 41	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	41055	2636.5	1	19.51	21.10	1.442	62.9	1.006	-0.03	0.739	1.072	—
	LTE Band 41	20M	QPSK	50	0	—	Back	5mm	Ant 0		DSI 3	41490	2680	1	19.31	21.10	1.510	62.9	1.006	0.03	0.656	0.997	—
	LTE Band 41	20M	QPSK	100	0	—	Back	5mm	Ant 0		DSI 3	40620	2593	1	19.52	21.10	1.439	62.9	1.006	0.06	0.814	1.178	—
	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0	Headset	DSI 3	40620	2593	1	19.60	21.10	1.413	62.9	1.006	0.07	0.533	0.757	—
Simultaneous	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	40620	2593	1	17.11	17.90	1.199	62.9	1.006	-0.02	0.468	0.565	—
	LTE Band 41	20M	QPSK	1	0	—	Front	17mm	Ant 0		DSI 4	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.03	0.365	0.457	—
	LTE Band 41	20M	QPSK	1	0	—	Back	23mm	Ant 0		DSI 4	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.02	0.236	0.295	—
	LTE Band 41 HPUE	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	40620	2593	1	21.27	22.70	1.390	42.9	1.009	-0.06	0.895	1.255	—
Simultaneous	LTE Band 41 HPUE	20M	QPSK	1	0	—	Back	5mm	Ant 0		DSI 3	40620	2593	1	18.33	19.50	1.309	42.9	1.009	0.06	0.578	0.764	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 0		DSI 3	519000	2595	1	17.54	18.90	1.368			-0.05	0.530	0.725	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 0		DSI 3	519000	2595	1	17.46	18.90	1.393			-0.06	0.555	0.773	—
42	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0		DSI 3	519000	2595	1	17.54	18.90	1.368			0.04	0.944	**1.291**	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0		DSI 3	518004	2590.02	1	17.27	18.90	1.455			-0.06	0.835	1.215	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0		DSI 3	519996	2599.98	1	17.23	18.90	1.469			0.04	0.854	1.254	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 0		DSI 3	519000	2595	1	17.46	18.90	1.393			0.03	0.850	1.184	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 0		DSI 3	518004	2590.02	1	17.40	18.90	1.413			0.02	0.722	1.020	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 0		DSI 3	519996	2599.98	1	17.30	18.90	1.445			-0.06	0.829	1.198	—
	FR1 n38	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 0		DSI 3	519000	2595	1	17.42	18.90	1.406			0.03	0.735	1.033	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	Headset	DSI 3	519000	2595	1	17.54	18.90	1.368			0.04	0.812	1.111	—
Simultaneous	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0		DSI 3	519000	2595	1	14.92	15.50	1.143			0.04	0.473	0.541	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	17mm	Ant 0		DSI 4	519000	2595	1	23.25	24.00	1.189			0.03	0.354	0.421	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	23mm	Ant 0		DSI 4	519000	2595	1	23.25	24.00	1.189			-0.04	0.215	0.256	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0		DSI 3	519000	2595	2	17.54	18.90	1.368			0.09	0.578	0.791	—
	LTE Band 7	20M	QPSK	1	0	—	Front	5mm	Ant 1		DSI 3	21100	2535	1	19.59	20.60	1.262			0.03	0.488	0.616	—
	LTE Band 7	20M	QPSK	50	0	—	Front	5mm	Ant 1		DSI 3	21100	2535	1	19.55	20.60	1.274			-0.06	0.467	0.595	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	21100	2535	1	19.59	20.60	1.262			0.06	0.959	1.210	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	20850	2510	1	19.48	20.60	1.294			0.04	0.971	1.257	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	21350	2560	1	19.56	20.60	1.271			-0.05	0.862	1.095	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	21100	2535	1	19.55	20.60	1.274			-0.06	0.734	0.935	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	20850	2510	1	19.41	20.60	1.315			0.06	0.710	0.934	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	21350	2560	1	19.40	20.60	1.318			0.05	0.689	0.908	—
	LTE Band 7	20M	QPSK	100	0	—	Back	5mm	Ant 1		DSI 3	21100	2535	1	19.53	20.60	1.279			-0.06	0.707	0.905	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1	Headset	DSI 3	20850	2510	1	19.48	20.60	1.294			0.04	0.850	1.100	—
Simultaneous	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	20850	2510	1	15.96	17.30	1.361			0.04	0.422	0.575	—
	LTE Band 7	20M	QPSK	1	0	—	Front	17mm	Ant 1		DSI 4	20850	2510	1	22.95	24.00	1.274			0.09	0.201	0.256	—
	LTE Band 7	20M	QPSK	1	0	—	Back	23mm	Ant 1		DSI 4	20850	2510	1	22.95	24.00	1.274			-0.01	0.217	0.276	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	20850	2510	2	19.48	20.60	1.294			0.02	0.561	0.726	—
	LTE Band 38	20M	QPSK	1	0	—	Front	5mm	Ant 1		DSI 3	38000	2595	1	19.34	19.90	1.138			0.04	0.368	0.419	—
	LTE Band 38	20M	QPSK	50	0	—	Front	5mm	Ant 1		DSI 3	38000	2595	1	19.22	19.90	1.169			0.03	0.402	0.470	—
	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	38000	2595	1	19.34	19.90	1.138			-0.06	0.893	1.016	—
	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	37850	2580	1	19.27	19.90	1.156			0.06	0.985	1.139	—
43	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	38150	2610	1	19.12	19.90	1.197			-0.06	1.030	**1.233**	1
Repeated	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	38150	2610	1	19.12	19.90	1.197			0.04	0.986	1.180	1.045
	LTE Band 38	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	38000	2595	1	19.22	19.90	1.169			0.03	0.794	0.929	—
	LTE Band 38	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	37850	2580	1	19.14	19.90	1.191			0.04	0.878	1.046	—
	LTE Band 38	20M	QPSK	50	0	—	Back	5mm	Ant 1		DSI 3	38150	2610	1	19.07	19.90	1.211			-0.06	0.793	0.960	—
	LTE Band 38	20M	QPSK	100	0	—	Back	5mm	Ant 1		DSI 3	38000	2595	1	19.17	19.90	1.183			0.04	0.766	0.906	—
	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1	Headset	DSI 3	38150	2610	1	19.12	19.90	1.197			0.03	0.793	0.949	—
Simultaneous	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1		DSI 3	38150	2610	1	15.47	16.70	1.327			-0.06	0.578	0.767	—
	LTE Band 38	20M	QPSK	1	0	—	Front	17mm	Ant 1		DSI 4	38150	2610	1	22.77	24.00	1.327			0.02	0.189	0.251	—
	LTE Band 38	20M	QPSK	1	0	—	Back	23mm	Ant 1		DSI 4	38150	2610	1	22.77	24.00	1.327			-0.06	0.228	0.303	—
3500MHz																							
	LTE Band 42	20M	QPSK	1	0	—	Front	5mm	Ant 4		DSI 3	42590	3500	1	17.69	18.80	1.291	62.9	1.006	-0.06	0.461	0.599	—
	LTE Band 42	20M	QPSK	50	0	—	Front	5mm	Ant 4		DSI 3	42590	3500	1	17.63	18.80	1.309	62.9	1.006	0.02	0.399	0.525	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4		DSI 3	42590	3500	1	17.69	18.80	1.291	62.9	1.006	0.04	0.841	1.092	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4		DSI 3	42190	3460	1	17.59	18.80	1.321	62.9	1.006	-0.06	0.898	1.194	—
44	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4		DSI 3	42990	3540	1	17.67	18.80	1.297	62.9	1.006	0.04	0.954	**1.245**	—
	LTE Band 42	20M	QPSK	50	0	—	Back	5mm	Ant 4		DSI 3	42590	3500	1	17.63	18.80	1.309	62.9	1.006	0.03	0.855	1.126	—
	LTE Band 42	20M	QPSK	50	0	—	Back	5mm	Ant 4		DSI 3	42190	3460	1	17.48	18.80	1.355	62.9	1.006	0.06	0.815	1.111	—
	LTE Band 42	20M	QPSK	50	0	—	Back	5mm	Ant 4		DSI 3	42990	3540	1	17.54	18.80	1.337	62.9	1.006	0.01	0.810	1.089	—
	LTE Band 42	20M	QPSK	100	0	—	Back	5mm	Ant 4		DSI 3	42590	3500	1	17.60	18.80	1.318	62.9	1.006	-0.06	0.829	1.099	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4	Headset	DSI 3	42990	3540	1	17.67	18.80	1.297	62.9	1.006	0.06	0.939	1.225	—
Simultaneous	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4		DSI 3	42990	3540	1	16.38	17.50	1.294	62.9	1.006	-0.04	0.757	0.986	—
	LTE Band 42	20M	QPSK	1	0	—	Front	17mm	Ant 4		DSI 4	42990	3540	1	22.82	24.00	1.312	62.9	1.006	0.05	0.849	1.121	—
	LTE Band 42	20M	QPSK	1	0	—	Back	23mm	Ant 4		DSI 4	42990	3540	1	22.82	24.00	1.312	62.9	1.006	-0.01	0.615	0.812	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4		DSI 3	42990	3540	2	17.67	18.80	1.297	62.9	1.006	0.06	0.661	0.863	—

SAR Test Record

Body SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
3500MHz																							
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4		DSI 3	633334	3500.01	1	16.14	16.70	1.138			0.09	0.765	0.870	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4		DSI 3	633334	3500.01	1	16.01	16.70	1.172			0.08	0.828	0.971	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 4		DSI 3	633334	3500.01	1	15.90	16.70	1.202			-0.04	0.682	0.820	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4		DSI 3	633334	3500.01	1	16.14	16.70	1.138			0.03	1.047	1.191	—
45	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4		DSI 3	633334	3500.01	1	16.01	16.70	1.172			0.08	1.060	**1.243**	1
Repeated	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4		DSI 3	633334	3500.01	1	16.01	16.70	1.172			0.03	0.995	1.166	1.065
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4		DSI 3	633334	3500.01	1	15.90	16.70	1.202			0.02	0.979	1.177	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	Headset	DSI 3	633334	3500.01	1	16.01	16.70	1.172			-0.03	1.027	1.204	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4		DSI 3	633334	3500.01	1	14.79	15.40	1.151			0.04	0.751	0.864	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	17mm	Ant 4		DSI 4	633334	3500.01	1	25.66	27.00	1.361			0.03	0.556	0.757	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	23mm	Ant 4		DSI 4	633334	3500.01	1	25.66	27.00	1.361			-0.02	0.504	0.686	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4		DSI 3	633334	3500.01	2	16.01	16.70	1.172			0.08	0.902	1.057	—
SRS	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2		DSI 3	633334	3500.01	1	15.54	16.40	1.219			0.05	0.641	0.781	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2		DSI 3	633334	3500.01	1	15.31	16.40	1.285			0.1	0.612	0.787	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2		DSI 3	633334	3500.01	1	15.54	16.40	1.219			0.07	0.707	0.862	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2		DSI 3	633334	3500.01	1	15.31	16.40	1.285			-0.03	0.662	0.851	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2		DSI 3	633334	3500.01	1	15.30	16.40	1.288			0.06	0.603	0.777	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2		DSI 3	633334	3500.01	1	14.15	15.10	1.245			0.02	0.534	0.665	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2		DSI 3	633334	3500.01	2	15.54	16.40	1.219			0.03	0.466	0.568	—
SRS	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7		DSI 3	633334	3500.01	1	18.96	19.50	1.132			0.04	0.689	0.780	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7		DSI 3	633334	3500.01	1	18.89	19.50	1.151			0.04	0.556	0.640	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7		DSI 3	633334	3500.01	1	18.96	19.50	1.132			0.08	1.030	1.166	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7		DSI 3	633334	3500.01	1	18.89	19.50	1.151			0.04	0.940	1.082	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7		DSI 3	633334	3500.01	1	18.85	19.50	1.161			0.02	0.910	1.057	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7		DSI 3	633334	3500.01	1	17.58	18.20	1.153			0.08	0.737	0.850	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7		DSI 3	633334	3500.01	2	18.96	19.50	1.132			0.04	0.906	1.026	—
SRS	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8		DSI 3	633334	3500.01	1	14.32	14.70	1.091			0.08	0.074	0.081	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8		DSI 3	633334	3500.01	1	14.23	14.70	1.114			0.04	0.069	0.077	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8		DSI 3	633334	3500.01	1	14.32	14.70	1.091			-0.04	0.907	0.990	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8		DSI 3	633334	3500.01	1	14.23	14.70	1.114			0.08	0.928	1.034	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8		DSI 3	633334	3500.01	1	14.19	14.70	1.125			-0.04	0.812	0.913	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8		DSI 3	633334	3500.01	1	13.13	13.40	1.064			0.03	0.682	0.726	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8		DSI 3	633334	3500.01	2	14.23	14.70	1.114			0.06	0.848	0.945	—
WLAN/BT																							
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Front	5mm	Ant 3+5		Full	11	2462	1	22.11	23.50	1.376	94.58	1.057	0.03	0.377	0.548	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Back	5mm	Ant 3+5		Full	11	2462	1	22.11	23.50	1.376	94.58	1.057	0.01	0.551	0.802	—
46	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Back	5mm	Ant 3+5		Full	1	2412	1	21.96	23.50	1.425	94.58	1.057	-0.09	0.609	**0.917**	—
Simultaneous	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Back	5mm	Ant 3+5		Simultaneous	1	2412	1	18.28	20.00	1.487	94.58	1.057	-0.04	0.256	0.402	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Back	5mm	Ant 3+5		Full	1	2412	2	21.96	23.50	1.425	94.58	1.057	0.03	0.600	0.904	—
	Bluetooth	—	—	—	—	1Mbps	Front	5mm	Ant3		Full	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.08	0.060	0.091	—
47	Bluetooth	—	—	—	—	1Mbps	Back	5mm	Ant3		Full	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.02	0.077	**0.117**	—
	Bluetooth	—	—	—	—	1Mbps	Front	5mm	Ant5		Full	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.03	0.063	0.105	—
	Bluetooth	—	—	—	—	1Mbps	Back	5mm	Ant5		Full	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.06	0.047	0.079	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Front	5mm	Ant5+6		Standalone	54	5270	1	18.11	19.50	1.377	93.98	1.064	0.04	0.556	0.815	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Back	5mm	Ant5+6		Standalone	54	5270	1	18.11	19.50	1.377	93.98	1.064	0.03	0.731	1.071	—
49	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Back	5mm	Ant5+6		Standalone	62	5310	1	18.05	19.50	1.396	93.98	1.064	0.08	0.801	**1.190**	1
Simultaneous	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Back	5mm	Ant5+6		Simultaneous	62	5310	1	14.54	16.00	1.400	93.98	1.064	0.03	0.301	0.448	—
Repeated	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Back	5mm	Ant5+6		Standalone	62	5310	1	18.05	19.50	1.396	93.98	1.064	-0.04	0.756	1.123	1.06
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Back	5mm	Ant5+6		Standalone	62	5310	2	18.05	19.50	1.396	93.98	1.064	0.05	0.731	1.086	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Front	5mm	Ant5+6		Standalone	122	5610	1	17.20	18.50	1.349	93.4	1.071	0.08	0.673	0.972	—
50	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Standalone	122	5610	1	17.20	18.50	1.349	93.4	1.071	-0.04	0.820	**1.185**	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Standalone	138	5690	1	17.12	18.50	1.374	93.4	1.071	0.03	0.759	1.117	1
Simultaneous	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Simultaneous	122	5610	1	15.32	16.00	1.169	93.4	1.071	0.08	0.338	0.423	—
Repeated	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Standalone	122	5610	1	17.20	18.50	1.349	93.4	1.071	0.06	0.788	1.138	1.041
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Standalone	122	5610	2	17.20	18.50	1.349	93.4	1.071	0.09	0.785	1.134	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Front	5mm	Ant5+6		Standalone	155	5775	1	17.11	18.50	1.377	93.4	1.071	0.03	0.368	0.543	—
51	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Standalone	155	5775	1	17.11	18.50	1.377	93.4	1.071	0.02	0.715	**1.055**	—
Simultaneous	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Simultaneous	155	5775	1	13.75	15.50	1.496	93.4	1.071	-0.03	0.289	0.463	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6		Standalone	155	5775	2	17.11	18.50	1.377	93.4	1.071	0.03	0.710	1.047	—

SAR Test Record

Hotspot SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
750MHz																						
	LTE Band 12	10M	QPSK	1	0	—	Front	5mm	Ant 1	DSI 3	23095	707.5	1	24.61	25.00	1.094			0.01	0.180	0.197	—
	LTE Band 12	10M	QPSK	25	0	—	Front	5mm	Ant 1	DSI 3	23095	707.5	1	23.65	24.00	1.084			0.02	0.182	0.197	—
52	LTE Band 12	10M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	23095	707.5	1	24.61	25.00	1.094			0.02	0.436	**0.477**	—
	LTE Band 12	10M	QPSK	25	0	—	Back	5mm	Ant 1	DSI 3	23095	707.5	1	23.65	24.00	1.084			0.02	0.414	0.449	—
	LTE Band 12	10M	QPSK	1	0	—	Left Side	5mm	Ant 1	DSI 3	23095	707.5	1	24.61	25.00	1.094			-0.01	0.137	0.150	—
	LTE Band 12	10M	QPSK	25	0	—	Left Side	5mm	Ant 1	DSI 3	23095	707.5	1	23.65	24.00	1.084			0.01	0.148	0.160	—
	LTE Band 12	10M	QPSK	1	0	—	Right Side	5mm	Ant 1	DSI 3	23095	707.5	1	24.61	25.00	1.094			0.02	0.149	0.163	—
	LTE Band 12	10M	QPSK	25	0	—	Right Side	5mm	Ant 1	DSI 3	23095	707.5	1	23.65	24.00	1.084			-0.06	0.160	0.173	—
	LTE Band 12	10M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	23095	707.5	1	24.61	25.00	1.094			-0.01	0.013	0.014	—
	LTE Band 12	10M	QPSK	25	0	—	Top Side	5mm	Ant 1	DSI 3	23095	707.5	1	23.65	24.00	1.084			0.01	0.012	0.013	—
	LTE Band 12	10M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	23095	707.5	2	24.61	25.00	1.094			0.06	0.411	0.450	—
	LTE Band 13	10M	QPSK	1	0	—	Front	5mm	Ant 0	DSI 3	23230	782	1	22.94	24.10	1.306			0.02	0.539	0.704	—
	LTE Band 13	10M	QPSK	25	0	—	Front	5mm	Ant 0	DSI 3	23230	782	1	22.88	24.00	1.294			-0.06	0.468	0.606	—
53	LTE Band 13	10M	QPSK	1	0	—	Back	5mm	Ant 0	DSI 3	23230	782	1	22.94	24.10	1.306			-0.03	0.739	**0.965**	—
	LTE Band 13	10M	QPSK	25	0	—	Back	5mm	Ant 0	DSI 3	23230	782	1	22.88	24.00	1.294			-0.01	0.661	0.855	—
	LTE Band 13	10M	QPSK	50	0	—	Back	5mm	Ant 0	DSI 3	23230	782	1	22.87	24.00	1.297			0.03	0.641	0.831	—
	LTE Band 13	10M	QPSK	1	0	—	Left Side	5mm	Ant 0	DSI 3	23230	782	1	22.94	24.10	1.306			0.02	0.250	0.327	—
	LTE Band 13	10M	QPSK	25	0	—	Left Side	5mm	Ant 0	DSI 3	23230	782	1	22.88	24.00	1.294			-0.06	0.222	0.287	—
	LTE Band 13	10M	QPSK	1	0	—	Right Side	5mm	Ant 0	DSI 3	23230	782	1	22.94	24.10	1.306			0.06	0.549	0.717	—
	LTE Band 13	10M	QPSK	25	0	—	Right Side	5mm	Ant 0	DSI 3	23230	782	1	22.88	24.00	1.294			-0.05	0.485	0.628	—
	LTE Band 13	10M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	23230	782	1	22.94	24.10	1.306			-0.03	0.613	0.801	—
	LTE Band 13	10M	QPSK	25	0	—	Bottom Side	5mm	Ant 0	DSI 3	23230	782	1	22.88	24.00	1.294			-0.06	0.547	0.708	—
	LTE Band 13	10M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	23230	782	1	22.87	24.00	1.297			0.01	0.475	0.616	—
	LTE Band 13	10M	QPSK	1	0	—	Back	5mm	Ant 0	DSI 3	23230	782	2	22.94	24.10	1.306			0.01	0.403	0.526	—
835MHz																						
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Front	5mm	Ant 0	DSI 3	189	836.4	1	26.87	28.40	1.422			0.03	0.403	0.573	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	189	836.4	1	26.87	28.40	1.422			0.05	0.564	0.802	—
54	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	128	824.2	1	27.14	28.40	1.337			0.01	0.670	**0.896**	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	251	848.8	1	26.83	28.40	1.435			0.05	0.493	0.708	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Left Side	5mm	Ant 0	DSI 3	189	836.4	1	26.87	28.40	1.422			0.02	0.092	0.131	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Side	5mm	Ant 0	DSI 3	189	836.4	1	26.87	28.40	1.422			0.06	0.262	0.373	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3	189	836.4	1	26.87	28.40	1.422			0.02	0.562	0.799	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	128	824.2	2	27.14	28.40	1.337			0.03	0.435	0.000	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	4182	836.4	1	21.64	22.20	1.138			0.02	0.436	0.496	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4182	836.4	1	21.64	22.20	1.138			-0.01	0.728	0.828	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4132	826.4	1	21.58	22.20	1.153			0.05	0.709	0.818	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4233	846.6	1	21.60	22.20	1.148			0.02	0.618	0.710	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3	4182	836.4	1	21.64	22.20	1.138			0.02	0.077	0.088	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3	4182	836.4	1	21.64	22.20	1.138			-0.06	0.287	0.326	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	4182	836.4	1	21.64	22.20	1.138			0.01	0.496	0.564	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3	167300	836.5	1	21.22	22.20	1.253			0.02	0.403	0.505	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI 3	167300	836.5	1	21.14	22.20	1.276			-0.01	0.373	0.476	—
55	FR1 n5	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3	167300	836.5	1	21.22	22.20	1.253			0.05	0.678	**0.850**	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3	167300	836.5	1	21.14	22.20	1.276			0.02	0.653	0.834	—
	FR1 n5	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	DSI 3	167300	836.5	1	21.09	22.20	1.291			0.06	0.631	0.815	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3	167300	836.5	1	21.22	22.20	1.253			-0.06	0.250	0.313	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 1	DSI 3	167300	836.5	1	21.14	22.20	1.276			0.01	0.259	0.331	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3	167300	836.5	1	21.22	22.20	1.253			0.03	0.094	0.118	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 1	DSI 3	167300	836.5	1	21.14	22.20	1.276			0.02	0.088	0.112	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI 3	167300	836.5	1	21.22	22.20	1.253			-0.07	0.514	0.644	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Top Side	5mm	Ant 1	DSI 3	167300	836.5	1	21.14	22.20	1.276			0.02	0.432	0.551	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Front	5mm	Ant 1	DSI 3	189	836.4	1	26.86	27.70	1.213			0.03	0.379	0.460	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 1	DSI 3	189	836.4	1	26.86	27.70	1.213			0.01	0.651	0.790	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Left Side	5mm	Ant 1	DSI 3	189	836.4	1	26.86	27.70	1.213			0.06	0.319	0.387	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Right Side	5mm	Ant 1	DSI 3	189	836.4	1	26.86	27.70	1.213			0.02	0.179	0.217	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3	189	836.4	1	26.86	27.70	1.213			-0.06	0.543	0.659	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	4182	836.4	1	20.50	22.10	1.445			0.02	0.298	0.431	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4182	836.4	1	20.50	22.10	1.445			0.02	0.601	0.869	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4132	826.4	1	20.48	22.10	1.452			0.02	0.612	0.889	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4233	846.6	1	20.47	22.10	1.455			0.06	0.589	0.857	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	4182	836.4	1	20.50	22.10	1.445			-0.06	0.287	0.415	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3	4182	836.4	1	20.50	22.10	1.445			0.05	0.090	0.130	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4182	836.4	1	20.50	22.10	1.445			0.02	0.607	0.877	—
56	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4132	826.4	1	20.48	22.10	1.452			-0.06	0.622	**0.903**	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4233	846.6	1	20.47	22.10	1.455			0.02	0.599	0.872	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	4132	826.4	2	20.48	22.10	1.452			0.03	0.544	0.790	—
	LTE Band 26	15M	QPSK	1	0	—	Front	5mm	Ant 1	DSI 3	26865	831.5	1	20.49	21.20	1.178			0.01	0.390	0.459	—
	LTE Band 26	15M	QPSK	36	0	—	Front	5mm	Ant 1	DSI 3	26865	831.5	1	20.39	21.20	1.205			0.03	0.331	0.399	—
57	LTE Band 26	15M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	26865	831.5	1	20.49	21.20	1.178			0.08	0.741	**0.873**	—
	LTE Band 26	15M	QPSK	36	0	—	Back	5mm	Ant 1	DSI 3	26865	831.5	1	20.39	21.20	1.205			0.02	0.633	0.763	—
	LTE Band 26	15M	QPSK	75	0	—	Back	5mm	Ant 1	DSI 3	26865	831.5	1	20.40	21.20	1.202			0.06	0.636	0.765	—
	LTE Band 26	15M	QPSK	1	0	—	Left Side	5mm	Ant 1	DSI 3	26865	831.5	1	20.49	21.20	1.178			0.02	0.364	0.429	—
	LTE Band 26	15M	QPSK	36	0	—	Left Side	5mm	Ant 1	DSI 3	26865	831.5	1	20.39	21.20	1.205			-0.06	0.302	0.364	—
	LTE Band 26	15M	QPSK	1	0	—	Right Side	5mm	Ant 1	DSI 3	26865	831.5	1	20.49	21.20	1.178			0.01	0.130	0.153	—
	LTE Band 26	15M	QPSK	36	0	—	Right Side	5mm	Ant 1	DSI 3	26865	831.5	1	20.39	21.20	1.205			0.03	0.108	0.130	—
	LTE Band 26	15M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	26865	831.5	1	20.49	21.20	1.178			0.1	0.650	0.765	—
	LTE Band 26	15M	QPSK	36	0	—	Top Side	5mm	Ant 1	DSI 3	26865	831.5	1	20.39	21.20	1.205			0.01	0.550	0.663	—

SAR Test Record

Hotspot SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1750MHz																						
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	1413	1732.6	1	13.55	14.60	1.274			0.02	0.280	0.357	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	1413	1732.6	1	13.55	14.60	1.274			0.03	0.431	0.549	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3	1413	1732.6	1	13.55	14.60	1.274			0.02	0.039	0.050	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3	1413	1732.6	1	13.55	14.60	1.274			0.01	0.045	0.057	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	1413	1732.6	1	13.55	14.60	1.274			0.03	0.672	0.856	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	1312	1712.4	1	13.47	14.60	1.297			0.06	0.622	0.807	—
58	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	1513	1752.6	1	13.53	14.60	1.279			0.02	0.725	**0.928**	—
	LTE Band 66	20M	QPSK	1	0	—	Front	5mm	Ant 0	DSI 3	132322	1745	1	13.77	14.70	1.239			0.02	0.291	0.360	—
	LTE Band 66	20M	QPSK	50	0	—	Front	5mm	Ant 0	DSI 3	132322	1745	1	13.65	14.70	1.274			0.01	0.232	0.295	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 0	DSI 3	132322	1745	1	13.77	14.70	1.239			0.02	0.438	0.543	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 0	DSI 3	132322	1745	1	13.65	14.70	1.274			0.01	0.343	0.437	—
	LTE Band 66	20M	QPSK	1	0	—	Left Side	5mm	Ant 0	DSI 3	132322	1745	1	13.77	14.70	1.239			0.02	0.035	0.043	—
	LTE Band 66	20M	QPSK	50	0	—	Left Side	5mm	Ant 0	DSI 3	132322	1745	1	13.65	14.70	1.274			0.03	0.028	0.036	—
	LTE Band 66	20M	QPSK	1	0	—	Right Side	5mm	Ant 0	DSI 3	132322	1745	1	13.77	14.70	1.239			-0.02	0.017	0.021	—
	LTE Band 66	20M	QPSK	50	0	—	Right Side	5mm	Ant 0	DSI 3	132322	1745	1	13.65	14.70	1.274			0.02	0.034	0.043	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	132322	1745	1	13.77	14.70	1.239			0.05	0.681	0.844	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	132072	1720	1	13.69	14.70	1.262			0.1	0.574	0.724	—
59	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	132572	1770	1	13.65	14.70	1.274			-0.07	0.729	**0.928**	—
	LTE Band 66	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	132322	1745	1	13.65	14.70	1.274			0.03	0.613	0.781	—
	LTE Band 66	20M	QPSK	100	0	—	Bottom Side	5mm	Ant 0	DSI 3	132322	1745	1	13.58	14.70	1.294			-0.05	0.600	0.777	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	132572	1770	2	13.65	14.70	1.274			0.05	0.515	0.656	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI 3	349000	1745	1	14.28	15.30	1.265			0.02	0.341	0.431	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	DSI 3	349000	1745	1	14.27	15.30	1.268			0.01	0.303	0.384	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI 3	346000	1730	1	14.28	15.30	1.265			0.02	0.424	0.536	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	DSI 3	349000	1745	1	14.27	15.30	1.268			0.02	0.446	0.565	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	DSI 3	349000	1745	1	14.28	15.30	1.265			-0.01	0.036	0.046	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 0	DSI 3	349000	1745	1	14.27	15.30	1.268			0.02	0.033	0.042	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	DSI 3	349000	1745	1	14.28	15.30	1.265			-0.06	0.039	0.049	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 0	DSI 3	349000	1745	1	14.27	15.30	1.268			0.06	0.040	0.051	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	349000	1745	1	14.28	15.30	1.265			-0.05	0.602	0.761	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	349000	1745	1	14.27	15.30	1.268			0.02	0.717	0.909	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	346000	1730	1	14.17	15.30	1.297			0.06	0.647	0.839	—
60	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	352000	1760	1	14.25	15.30	1.274			-0.04	0.725	**0.923**	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	349000	1745	1	14.19	15.30	1.291			0.02	0.563	0.727	—
	LTE Band 66	20M	QPSK	1	0	—	Front	5mm	Ant 1	DSI 3	132322	1745	1	15.15	16.30	1.303			0.03	0.340	0.443	—
	LTE Band 66	20M	QPSK	50	0	—	Front	5mm	Ant 1	DSI 3	132322	1745	1	15.13	16.30	1.309			0.02	0.307	0.402	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	132322	1745	1	15.15	16.30	1.303			0.05	0.652	0.850	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	132072	1720	1	15.12	16.30	1.312			0.02	0.631	0.828	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	132572	1770	1	15.14	16.30	1.306			-0.01	0.683	0.892	—
	LTE Band 66	20M	QPSK	50	0	—	Back	5mm	Ant 1	DSI 3	132322	1745	1	15.13	16.30	1.309			0.03	0.602	0.788	—
	LTE Band 66	20M	QPSK	100	0	—	Back	5mm	Ant 1	DSI 3	132322	1745	1	15.01	16.30	1.346			0.05	0.579	0.779	—
	LTE Band 66	20M	QPSK	1	0	—	Left Side	5mm	Ant 1	DSI 3	132322	1745	1	15.15	16.30	1.303			-0.03	0.149	0.194	—
	LTE Band 66	20M	QPSK	50	0	—	Left Side	5mm	Ant 1	DSI 3	132322	1745	1	15.13	16.30	1.309			0.02	0.141	0.185	—
	LTE Band 66	20M	QPSK	1	0	—	Right Side	5mm	Ant 1	DSI 3	132322	1745	1	15.15	16.30	1.303			-0.06	0.013	0.017	—
	LTE Band 66	20M	QPSK	50	0	—	Right Side	5mm	Ant 1	DSI 3	132322	1745	1	15.13	16.30	1.309			-0.01	0.011	0.014	—
	LTE Band 66	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	132322	1745	1	15.15	16.30	1.303			0.02	0.532	0.693	—
	LTE Band 66	20M	QPSK	50	0	—	Top Side	5mm	Ant 1	DSI 3	132322	1745	1	15.13	16.30	1.309			-0.05	0.496	0.649	—
	LTE Band 66	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	132572	1770	2	15.14	16.30	1.306			0.06	0.630	0.823	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3	349000	1745	1	15.56	16.40	1.213			-0.05	0.235	0.285	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	DSI 3	349000	1745	1	15.50	16.40	1.230			-0.06	0.244	0.300	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	1	15.56	16.40	1.213			0.02	0.535	0.649	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	1	15.50	16.40	1.230			-0.07	0.662	0.814	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3	349000	1745	1	15.56	16.40	1.213			0.02	0.114	0.138	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 1	DSI 3	349000	1745	1	15.50	16.40	1.230			-0.06	0.115	0.141	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3	349000	1745	1	15.56	16.40	1.213			-0.05	0.011	0.013	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 1	DSI 3	349000	1745	1	15.50	16.40	1.230			-0.06	0.010	0.012	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	1	15.56	16.40	1.213			-0.03	0.405	0.491	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	1	15.50	16.40	1.230			0.02	0.378	0.465	—
1900MHz																						
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Front	5mm	Ant 0	DSI 3	661	1880	1	20.30	21.40	1.288			-0.05	0.198	0.255	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	5mm	Ant 0	DSI 3	661	1880	1	20.30	21.40	1.288			0.02	0.258	0.332	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Left Side	5mm	Ant 0	DSI 3	661	1880	1	20.30	21.40	1.288			-0.06	0.026	0.033	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Right Side	5mm	Ant 0	DSI 3	661	1880	1	20.30	21.40	1.288			-0.04	0.023	0.030	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3	661	1880	1	20.30	21.40	1.288			0.02	0.655	0.844	—
61	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3	512	1850.2	1	20.05	21.40	1.365			-0.06	0.687	**0.937**	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3	810	1909.8	1	20.26	21.40	1.300			0.06	0.642	0.835	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3	512	1850.2	2	20.05	21.40	1.365			-0.07	0.625	0.853	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	9400	1880	1	13.63	14.80	1.309			-0.06	0.262	0.343	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	9400	1880	1	13.63	14.80	1.309			-0.06	0.340	0.445	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3	9400	1880	1	13.63	14.80	1.309			0.06	0.032	0.042	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3	9400	1880	1	13.63	14.80	1.309			-0.03	0.032	0.042	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	9400	1880	1	13.63	14.80	1.309			0.02	0.698	0.914	—
62	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	9262	1852.4	1	13.55	14.80	1.334			-0.06	0.702	**0.936**	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3	9538	1907.6	1	13.58	14.80	1.324			-0.06	0.698	0.924	—
	LTE Band 2	20M	QPSK	1	0	—	Front	5mm	Ant 0	DSI 3	18900	1880	1	12.78	13.80	1.265			0.02	0.255	0.323	—
	LTE Band 2	20M	QPSK	50	0	—	Front	5mm	Ant 0	DSI 3	18900	1880	1	12.74	13.80	1.276			-0.03	0.196	0.250	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 0	DSI 3	18900	1880	1	12.78	13.80	1.265			-0.06	0.433	0.548	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 0	DSI 3	18900	1880	1	12.74	13.80	1.276			-0.03	0.346	0.442	—
	LTE Band 2	20M	QPSK	1	0	—	Left Side	5mm	Ant 0	DSI 3	18900	1880	1	12.78	13.80	1.265			-0.06	0.020	0.025	—
	LTE Band 2	20M	QPSK	50	0	—	Left Side	5mm	Ant 0	DSI 3	18900	1880	1	12.74	13.80	1.276			-0.06	0.022	0.028	—
	LTE Band 2	20M	QPSK	1	0	—	Right Side	5mm	Ant 0	DSI 3	18900	1880	1	12.78	13.80	1.265			-0.06	0.025	0.032	—
	LTE Band 2	20M	QPSK	50	0	—	Right Side	5mm	Ant 0	DSI 3	18900	1880	1	12.74	13.80	1.276			-0.03	0.020	0.026	—
	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	18900	1880	1	12.78	13.80	1.265			-0.06	0.700	0.885	—
63	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	18700	1860	1	12.77	13.80	1.268			-0.04	0.735	**0.932**	—
	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	19100	1900	1	12.70	13.80	1.288			0.02	0.717	0.924	—
	LTE Band 2	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	18900	1880	1	12.74	13.80	1.276			-0.06	0.575	0.734	—
	LTE Band 2	20M	QPSK	100	0	—	Bottom Side	5mm	Ant 0	DSI 3	18900	1880	1	12.70	13.80	1.288			-0.03	0.560	0.721	—
	LTE Band 2	20M	QPSK	1	0	—	Front	5mm	Ant 1	DSI 3	18900	1880	1	17.21	17.80	1.146			-0.06	0.264	0.302	—
	LTE Band 2	20M	QPSK	50	0	—	Front	5mm	Ant 1	DSI 3	18900	1880	1	17.14	17.80	1.164			-0.03	0.174	0.203	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	18900	1880	1	17.21	17.80	1.146			-0.06	0.731	0.837	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	18700	1860	1	17.09	17.80	1.178			-0.03	0.705	0.830	—
	LTE Band 2	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	19100	1900	1	17.15	17.80	1.161			0.02	0.666	0.774	—
	LTE Band 2	20M	QPSK	50	0	—	Back	5mm	Ant 1	DSI 3	18900	1880	1	17.14	17.80	1.164			-0.03	0.611	0.711	—
	LTE Band 2	20M	QPSK	100	0	—	Back	5mm	Ant 1	DSI 3	18900	1880	1	17.07	17.80	1.183			0.02	0.649	0.768	—
	LTE Band 2	20M	QPSK	1	0	—	Left Side	5mm	Ant 1	DSI 3	18900	1880	1	17.21	17.80	1.146			0.06	0.206	0.236	—
	LTE Band 2	20M	QPSK	50	0	—	Left Side	5mm	Ant 1	DSI 3	18900	1880	1	17.14	17.80	1.164			-0.06	0.120	0.140	—
	LTE Band 2	20M	QPSK	1	0	—	Right Side	5mm	Ant 1	DSI 3	18900	1880	1	17.21	17.80	1.146			-0.03	0.039	0.045	—
	LTE Band 2	20M	QPSK	50	0	—	Right Side	5mm	Ant 1	DSI 3	18900	1880	1	17.14	17.80	1.164			-0.03	0.031	0.036	—
	LTE Band 2	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	18900	1880	1	17.21	17.80	1.146			-0.06	0.695	0.796	—
	LTE Band 2	20M	QPSK	50	0	—	Top Side	5mm	Ant 1	DSI 3	18900	1880	1	17.14	17.80	1.164			-0.06	0.679	0.790	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3	376000	1880	1	17.16	17.90	1.186			-0.03	0.259	0.307	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI 3	376000	1880	1	17.09	17.90	1.205			-0.03	0.270	0.325	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3	376000	1880	1	17.16	17.90	1.186			0.02	0.536	0.636	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3	376000	1880	1	17.09	17.90	1.205			-0.04	0.679	0.818	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3	372000	1860	1	17.01	17.90	1.227			0.02	0.603	0.740	—
64	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3	380000	1900	1	16.93	17.90	1.250			-0.03	0.717	**0.896**	—
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	DSI 3	376000	1880	1	17.04	17.90	1.219			0.03	0.614	0.748	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3	376000	1880	1	17.16	17.90	1.186			-0.03	0.139	0.165	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 1	DSI 3	376000	1880	1	17.09	17.90	1.205			0.02	0.151	0.182	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3	376000	1880	1	17.16	17.90	1.186			-0.06	0.024	0.028	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 1	DSI 3	376000	1880	1	17.09	17.90	1.205			-0.03	0.035	0.042	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI 3	376000	1880	1	17.16	17.90	1.186			-0.03	0.561	0.665	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	5mm	Ant 1	DSI 3	376000	1880	1	17.09	17.90	1.205			0.02	0.603	0.727	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3	380000	1900	2	16.93	17.90	1.250			-0.06	0.704	0.880	—

SAR Test Record

Hotspot SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
											2600MHz											
	LTE Band 7	20M	QPSK	1	0	—	Front	5mm	Ant 0	DSI 3	21100	2535	1	14.80	15.20	1.096			0.02	0.326	0.357	—
	LTE Band 7	20M	QPSK	50	0	—	Front	5mm	Ant 0	DSI 3	21100	2535	1	14.74	15.20	1.112			-0.04	0.276	0.307	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 0	DSI 3	21100	2535	1	14.80	15.20	1.096			-0.03	0.506	0.555	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 0	DSI 3	21100	2535	1	14.74	15.20	1.112			-0.03	0.437	0.486	—
	LTE Band 7	20M	QPSK	1	0	—	Left Side	5mm	Ant 0	DSI 3	21100	2535	1	14.80	15.20	1.096			0.06	0.047	0.052	—
	LTE Band 7	20M	QPSK	50	0	—	Left Side	5mm	Ant 0	DSI 3	21100	2535	1	14.74	15.20	1.112			-0.06	0.040	0.044	—
	LTE Band 7	20M	QPSK	1	0	—	Right Side	5mm	Ant 0	DSI 3	21100	2535	1	14.80	15.20	1.096			-0.03	0.058	0.064	—
	LTE Band 7	20M	QPSK	50	0	—	Right Side	5mm	Ant 0	DSI 3	21100	2535	1	14.74	15.20	1.112			-0.03	0.048	0.053	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	21100	2535	1	14.80	15.20	1.096			-0.06	0.751	0.823	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	20850	2510	1	14.57	15.20	1.156			0.03	0.805	0.931	1
Repeated	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	20850	2510	1	14.57	15.20	1.156			0.01	0.795	0.919	1.013
UL CA	LTE Band 7	20M	QPSK	1	99	—	Bottom Side	5mm	Ant 0	DSI 3	21100+21298	2535+2554.8	1	14.56	15.20	1.159			0.08	0.776	0.899	UL CA
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	21350	2560	1	14.72	15.20	1.117			0.02	0.693	0.774	—
	LTE Band 7	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	21100	2535	1	14.74	15.20	1.112			-0.06	0.629	0.699	—
	LTE Band 7	20M	QPSK	100	0	—	Bottom Side	5mm	Ant 0	DSI 3	21100	2535	1	14.61	15.20	1.146			-0.06	0.613	0.702	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	20850	2510	2	14.57	15.20	1.156			0.09	0.427	0.494	
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI 3	507000	2535	1	14.96	16.00	1.271			0.06	0.230	0.292	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	DSI 3	507000	2535	1	14.90	16.00	1.288			-0.03	0.257	0.331	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI 3	507000	2535	1	14.96	16.00	1.271			-0.06	0.379	0.482	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	DSI 3	507000	2535	1	14.90	16.00	1.288			-0.06	0.453	0.584	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	DSI 3	507000	2535	1	14.96	16.00	1.271			-0.06	0.079	0.100	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 0	DSI 3	507000	2535	1	14.90	16.00	1.288			0.06	0.061	0.079	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	DSI 3	507000	2535	1	14.96	16.00	1.271			-0.06	0.059	0.075	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 0	DSI 3	507000	2535	1	14.90	16.00	1.288			-0.03	0.042	0.054	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	507000	2535	1	14.96	16.00	1.271			-0.03	0.619	0.786	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	507000	2535	1	14.90	16.00	1.288			-0.06	0.636	0.819	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	504000	2520	1	14.75	16.00	1.334			0.02	0.604	0.805	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	510000	2550	1	14.79	16.00	1.321			-0.06	0.634	0.838	—
65	FR1 n7	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 0	DSI 3	507000	2535	1	14.85	16.00	1.303			-0.06	0.714	**0.930**	—
	LTE Band 41	20M	QPSK	1	0	—	Front	5mm	Ant 0	DSI 3	40620	2593	1	17.11	17.90	1.199	62.9	1.006	-0.03	0.239	0.288	—
	LTE Band 41	20M	QPSK	50	0	—	Front	5mm	Ant 0	DSI 3	40620	2593	1	17.03	17.90	1.222	62.9	1.006	-0.03	0.244	0.300	—
	LTE Band 41	20M	QPSK	1	0	—	Back	5mm	Ant 0	DSI 3	40620	2593	1	17.11	17.90	1.199	62.9	1.006	-0.03	0.451	0.544	—
	LTE Band 41	20M	QPSK	50	0	—	Back	5mm	Ant 0	DSI 3	40620	2593	1	17.03	17.90	1.222	62.9	1.006	-0.06	0.412	0.506	—
	LTE Band 41	20M	QPSK	1	0	—	Left Side	5mm	Ant 0	DSI 3	40620	2593	1	17.11	17.90	1.199	62.9	1.006	0.03	0.086	0.104	—
	LTE Band 41	20M	QPSK	50	0	—	Left Side	5mm	Ant 0	DSI 3	40620	2593	1	17.03	17.90	1.222	62.9	1.006	0.04	0.076	0.093	—
	LTE Band 41	20M	QPSK	1	0	—	Right Side	5mm	Ant 0	DSI 3	40620	2593	1	17.11	17.90	1.199	62.9	1.006	-0.06	0.066	0.080	—
	LTE Band 41	20M	QPSK	50	0	—	Right Side	5mm	Ant 0	DSI 3	40620	2593	1	17.03	17.90	1.222	62.9	1.006	0.04	0.048	0.059	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	1	17.11	17.90	1.199	62.9	1.006	0.03	0.684	0.825	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	39750	2506	1	16.94	17.90	1.247	62.9	1.006	0.06	0.642	0.806	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	40185	2549.5	1	17.09	17.90	1.205	62.9	1.006	0.01	0.630	0.764	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	41055	2636.5	1	17.10	17.90	1.202	62.9	1.006	-0.02	0.613	0.741	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	41490	2680	1	16.98	17.90	1.236	62.9	1.006	0.1	0.650	0.808	—
	LTE Band 41	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	1	17.03	17.90	1.222	62.9	1.006	-0.06	0.656	0.806	—
	LTE Band 41	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	39750	2506	1	16.82	17.90	1.282	62.9	1.006	0.04	0.623	0.804	—
	LTE Band 41	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	40185	2549.5	1	16.96	17.90	1.242	62.9	1.006	0.02	0.601	0.751	—
	LTE Band 41	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	41055	2636.5	1	16.98	17.90	1.236	62.9	1.006	-0.06	0.645	0.802	—
	LTE Band 41	20M	QPSK	50	0	—	Bottom Side	5mm	Ant 0	DSI 3	41490	2680	1	16.94	17.90	1.247	62.9	1.006	0.04	0.635	0.797	—
	LTE Band 41	20M	QPSK	100	0	—	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	1	17.02	17.90	1.225	62.9	1.006	0.03	0.598	0.737	—
66	LTE Band 41 HPUE	20M	QPSK	1	0	—	Bottom Side	5mm	Ant 0	DSI 3	40620	2593	1	18.33	19.50	1.309	42.9	1.009	0.02	0.674	**0.890**	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	DSI 3	519000	2595	1	14.92	15.50	1.143			-0.05	0.265	0.303	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 0	DSI 3	519000	2595	1	14.66	15.50	1.213			-0.04	0.254	0.308	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	DSI 3	519000	2595	1	14.92	15.50	1.143			0.04	0.473	0.541	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 0	DSI 3	519000	2595	1	14.66	15.50	1.213			0.02	0.462	0.561	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 0	DSI 3	519000	2595	1	14.92	15.50	1.143			-0.06	0.075	0.086	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 0	DSI 3	519000	2595	1	14.66	15.50	1.213			0.04	0.063	0.076	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 0	DSI 3	519000	2595	1	14.92	15.50	1.143			0.03	0.048	0.055	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 0	DSI 3	519000	2595	1	14.66	15.50	1.213			-0.03	0.053	0.064	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	519000	2595	1	14.92	15.50	1.143			0.04	0.777	0.888	—
67	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	518004	2590.02	1	14.91	15.50	1.146			0.02	0.787	**0.902**	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	519996	2599.98	1	14.87	15.50	1.156			-0.05	0.723	0.836	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	519000	2595	1	14.66	15.50	1.213			0.01	0.710	0.862	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	518004	2590.02	1	14.63	15.50	1.222			0.03	0.689	0.842	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	519996	2599.98	1	14.46	15.50	1.271			0.04	0.658	0.836	—
	FR1 n38	40M	QPSK	100	0	DFT-30	Bottom Side	5mm	Ant 0	DSI 3	519000	2595	1	14.59	15.50	1.233			-0.06	0.632	0.779	—
	LTE Band 7	20M	QPSK	1	0	—	Front	5mm	Ant 1	DSI 3	21100	2535	1	16.13	17.30	1.309			0.03	0.212	0.278	—
	LTE Band 7	20M	QPSK	50	0	—	Front	5mm	Ant 1	DSI 3	21100	2535	1	16.05	17.30	1.334			-0.06	0.203	0.271	—
	LTE Band 7	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	21100	2535	1	16.13	17.30	1.309			0.06	0.417	0.546	—
	LTE Band 7	20M	QPSK	50	0	—	Back	5mm	Ant 1	DSI 3	21100	2535	1	16.05	17.30	1.334			-0.06	0.319	0.425	—
	LTE Band 7	20M	QPSK	1	0	—	Left Side	5mm	Ant 1	DSI 3	21100	2535	1	16.13	17.30	1.309			-0.06	0.076	0.099	—
	LTE Band 7	20M	QPSK	50	0	—	Left Side	5mm	Ant 1	DSI 3	21100	2535	1	16.05	17.30	1.334			0.06	0.063	0.084	—
	LTE Band 7	20M	QPSK	1	0	—	Right Side	5mm	Ant 1	DSI 3	21100	2535	1	16.13	17.30	1.309			-0.06	0.065	0.085	—
	LTE Band 7	20M	QPSK	50	0	—	Right Side	5mm	Ant 1	DSI 3	21100	2535	1	16.05	17.30	1.334			0.03	0.045	0.060	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	21100	2535	1	16.13	17.30	1.309			0.04	0.646	0.846	—
68	LTE Band 7	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	20850	2510	1	15.96	17.30	1.361			-0.06	0.689	**0.938**	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	21350	2560	1	16.09	17.30	1.321			0.04	0.686	0.906	—
	LTE Band 7	20M	QPSK	50	0	—	Top Side	5mm	Ant 1	DSI 3	21100	2535	1	16.05	17.30	1.334			0.03	0.578	0.771	—
	LTE Band 7	20M	QPSK	100	0	—	Top Side	5mm	Ant 1	DSI 3	21100	2535	1	16.01	17.30	1.346			0.03	0.593	0.798	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	20850	2510	2	15.96	17.30	1.361			0.08	0.603	0.821	—
	LTE Band 38	20M	QPSK	1	0	—	Front	5mm	Ant 1	DSI 3	38000	2595	1	15.76	16.70	1.242			0.04	0.207	0.257	—
	LTE Band 38	20M	QPSK	50	0	—	Front	5mm	Ant 1	DSI 3	38000	2595	1	15.66	16.70	1.271			0.03	0.226	0.287	—
	LTE Band 38	20M	QPSK	1	0	—	Back	5mm	Ant 1	DSI 3	38000	2595	1	15.76	16.70	1.242			-0.06	0.445	0.553	—
	LTE Band 38	20M	QPSK	50	0	—	Back	5mm	Ant 1	DSI 3	38000	2595	1	15.66	16.70	1.271			0.03	0.390	0.496	—
	LTE Band 38	20M	QPSK	1	0	—	Left Side	5mm	Ant 1	DSI 3	38000	2595	1	15.76	16.70	1.242			0.02	0.076	0.094	—
	LTE Band 38	20M	QPSK	50	0	—	Left Side	5mm	Ant 1	DSI 3	38000	2595	1	15.66	16.70	1.271			-0.06	0.063	0.080	—
	LTE Band 38	20M	QPSK	1	0	—	Right Side	5mm	Ant 1	DSI 3	38000	2595	1	15.76	16.70	1.242			-0.06	0.031	0.038	—
	LTE Band 38	20M	QPSK	50	0	—	Right Side	5mm	Ant 1	DSI 3	38000	2595	1	15.66	16.70	1.271			0.03	0.023	0.029	—
69	LTE Band 38	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	38000	2595	1	15.76	16.70	1.242			0.04	0.752	**0.934**	—
	LTE Band 38	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	37850	2580	1	15.70	16.70	1.259			-0.06	0.714	0.899	—
	LTE Band 38	20M	QPSK	1	0	—	Top Side	5mm	Ant 1	DSI 3	38150	2610	1	15.47	16.70	1.327			0.04	0.702	0.932	—
	LTE Band 38	20M	QPSK	50	0	—	Top Side	5mm	Ant 1	DSI 3	38000	2595	1	15.66	16.70	1.271			0.03	0.614	0.780	—
	LTE Band 38	20M	QPSK	100	0	—	Top Side	5mm	Ant 1	DSI 3	38000	2595	1	15.55	16.70	1.303			-0.06	0.568	0.740	—

SAR Test Record

Hotspot SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
3500MHz																						
	LTE Band 42	20M	QPSK	1	0	—	Front	5mm	Ant 4	DSI 3	42590	3500	1	16.40	17.50	1.288	62.9	1.006	-0.06	0.373	0.483	—
	LTE Band 42	20M	QPSK	50	0	—	Front	5mm	Ant 4	DSI 3	42590	3500	1	16.37	17.50	1.297	62.9	1.006	0.02	0.317	0.414	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4	DSI 3	42590	3500	1	16.40	17.50	1.288	62.9	1.006	0.04	0.708	0.918	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4	DSI 3	42190	3460	1	16.33	17.50	1.309	62.9	1.006	-0.06	0.680	0.896	—
70	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4	DSI 3	42990	3540	1	16.38	17.50	1.294	62.9	1.006	0.04	0.757	**0.986**	—
	LTE Band 42	20M	QPSK	50	0	—	Back	5mm	Ant 4	DSI 3	42590	3500	1	16.37	17.50	1.297	62.9	1.006	0.03	0.602	0.786	—
	LTE Band 42	20M	QPSK	100	0	—	Back	5mm	Ant 4	DSI 3	42590	3500	1	16.36	17.50	1.300	62.9	1.006	-0.06	0.589	0.770	—
	LTE Band 42	20M	QPSK	1	0	—	Left Side	5mm	Ant 4	DSI 3	42590	3500	1	16.40	17.50	1.288	62.9	1.006	-0.06	0.040	0.052	—
	LTE Band 42	20M	QPSK	50	0	—	Left Side	5mm	Ant 4	DSI 3	42590	3500	1	16.37	17.50	1.297	62.9	1.006	0.03	0.032	0.042	—
	LTE Band 42	20M	QPSK	1	0	—	Right Side	5mm	Ant 4	DSI 3	42590	3500	1	16.40	17.50	1.288	62.9	1.006	0.04	0.081	0.105	—
	LTE Band 42	20M	QPSK	50	0	—	Right Side	5mm	Ant 4	DSI 3	42590	3500	1	16.37	17.50	1.297	62.9	1.006	0.02	0.066	0.086	—
	LTE Band 42	20M	QPSK	1	0	—	Top Side	5mm	Ant 4	DSI 3	42590	3500	1	16.40	17.50	1.288	62.9	1.006	0.04	0.401	0.520	—
	LTE Band 42	20M	QPSK	50	0	—	Top Side	5mm	Ant 4	DSI 3	42590	3500	1	16.37	17.50	1.297	62.9	1.006	0.02	0.331	0.432	—
	LTE Band 42	20M	QPSK	1	0	—	Back	5mm	Ant 4	DSI 3	42990	3540	2	16.38	17.50	1.294	62.9	1.006	0.06	0.665	0.866	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	DSI 3	633334	3500.01	1	14.93	15.40	1.114			0.09	0.471	0.525	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	DSI 3	633334	3500.01	1	14.79	15.40	1.151			0.08	0.587	0.676	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3	633334	3500.01	1	14.93	15.40	1.114			0.03	0.742	0.827	—
71	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	633334	3500.01	1	14.79	15.40	1.151			0.08	0.751	**0.864**	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	DSI 3	633334	3500.01	1	14.75	15.40	1.161			0.02	0.664	0.771	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.93	15.40	1.114			0.04	0.067	0.075	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.79	15.40	1.151			0.03	0.048	0.055	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.93	15.40	1.114			0.08	0.118	0.131	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.79	15.40	1.151			-0.04	0.115	0.132	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.93	15.40	1.114			0.08	0.684	0.762	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.79	15.40	1.151			0.02	0.721	0.830	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Top Side	5mm	Ant 4	DSI 3	633334	3500.01	1	14.75	15.40	1.161			-0.03	0.602	0.699	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSI 3	633334	3500.01	1	14.15	15.10	1.245			0.05	0.297	0.370	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	DSI 3	633334	3500.01	1	14.06	15.10	1.271			0.1	0.373	0.474	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI 3	633334	3500.01	1	14.15	15.10	1.245			0.02	0.534	0.665	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI 3	633334	3500.01	1	14.06	15.10	1.271			-0.03	0.500	0.635	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 2	DSI 3	633334	3500.01	1	14.15	15.10	1.245			0.04	0.475	0.591	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 3	633334	3500.01	1	14.06	15.10	1.271			0.03	0.486	0.617	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 2	DSI 3	633334	3500.01	1	14.15	15.10	1.245			-0.04	0.134	0.167	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 2	DSI 3	633334	3500.01	1	14.06	15.10	1.271			0.03	0.149	0.189	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI 3	633334	3500.01	2	14.15	15.10	1.245			0.02	0.416	0.518	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	DSI 3	633334	3500.01	1	17.58	18.20	1.153			0.04	0.493	0.569	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	DSI 3	633334	3500.01	1	17.48	18.20	1.180			0.04	0.398	0.470	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	DSI 3	633334	3500.01	1	17.58	18.20	1.153			0.08	0.737	0.850	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	DSI 3	633334	3500.01	1	17.48	18.20	1.180			0.04	0.630	0.744	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	DSI 3	633334	3500.01	1	17.46	18.20	1.186			0.03	0.612	0.726	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 7	DSI 3	633334	3500.01	1	17.58	18.20	1.153			-0.08	0.626	0.722	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 7	DSI 3	633334	3500.01	1	17.48	18.20	1.180			-0.03	0.594	0.701	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 7	DSI 3	633334	3500.01	1	17.58	18.20	1.153			0.04	0.398	0.459	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 7	DSI 3	633334	3500.01	1	17.48	18.20	1.180			0.03	0.284	0.335	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	DSI 3	633334	3500.01	2	17.58	18.20	1.153			0.09	0.531	0.612	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI 3	633334	3500.01	1	13.23	13.40	1.040			0.08	0.550	0.572	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	DSI 3	633334	3500.01	1	13.13	13.40	1.064			0.04	0.510	0.543	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 3	633334	3500.01	1	13.23	13.40	1.040			-0.04	0.667	0.694	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3	633334	3500.01	1	13.13	13.40	1.064			0.03	0.682	0.726	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	DSI 3	633334	3500.01	1	13.23	13.40	1.040			0.02	0.066	0.069	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 8	DSI 3	633334	3500.01	1	13.13	13.40	1.064			0.04	0.093	0.099	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	DSI 3	633334	3500.01	1	13.23	13.40	1.040			0.01	0.023	0.024	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 8	DSI 3	633334	3500.01	1	13.13	13.40	1.064			-0.08	0.023	0.024	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	DSI 3	633334	3500.01	1	13.23	13.40	1.040			-0.03	0.117	0.122	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	DSI 3	633334	3500.01	1	13.13	13.40	1.064			0.02	0.109	0.116	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3	633334	3500.01	2	13.13	13.40	1.064			0.04	0.657	0.699	—
WLAN/BT																						
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Front	5mm	Ant 3+5	Hotspot on	11	2462	1	18.29	20.00	1.483	94.58	1.057	0.03	0.167	0.262	—
72	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Back	5mm	Ant 3+5	Hotspot on	11	2462	1	18.29	20.00	1.483	94.58	1.057	-0.04	0.256	**0.401**	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Right Side	5mm	Ant 3+5	Hotspot on	11	2462	1	18.29	20.00	1.483	94.58	1.057	0.02	0.205	0.321	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Top Side	5mm	Ant 3+5	Hotspot on	11	2462	1	18.29	20.00	1.483	94.58	1.057	0.02	0.123	0.193	—
	WLAN2.4GHz	—	—	—	—	802.11b 1Mbps	Back	5mm	Ant 3+5	Hotspot on	11	2462	2	18.29	20.00	1.483	94.58	1.057	0.03	0.247	0.387	—
	Bluetooth	—	—	—	—	1Mbps	Front	5mm	Ant3	Hotspot on	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.08	0.060	0.091	—
	Bluetooth	—	—	—	—	1Mbps	Back	5mm	Ant3	Hotspot on	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.02	0.077	0.117	—
	Bluetooth	—	—	—	—	1Mbps	Right Side	5mm	Ant3	Hotspot on	39	2441	1	10.83	11.50	1.167	76.79	1.302	-0.03	0.052	0.079	—
73	Bluetooth	—	—	—	—	1Mbps	Top Side	5mm	Ant3	Hotspot on	39	2441	1	10.83	11.50	1.167	76.79	1.302	0.04	0.086	**0.131**	—
	Bluetooth	—	—	—	—	1Mbps	Front	5mm	Ant5	Hotspot on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.03	0.063	0.105	—
	Bluetooth	—	—	—	—	1Mbps	Back	5mm	Ant5	Hotspot on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.06	0.047	0.079	—
	Bluetooth	—	—	—	—	1Mbps	Right Side	5mm	Ant5	Hotspot on	0	2402	1	12.41	13.50	1.285	76.79	1.302	-0.02	0.070	0.117	—
	Bluetooth	—	—	—	—	1Mbps	Top Side	5mm	Ant5	Hotspot on	0	2402	1	12.41	13.50	1.285	76.79	1.302	0.07	0.026	0.044	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Front	5mm	Ant5+6	Hotspot on	38	5190	1	14.35	16.00	1.462	93.98	1.064	0.03	0.144	0.224	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Back	5mm	Ant5+6	Hotspot on	38	5190	1	14.35	16.00	1.462	93.98	1.064	0.08	0.215	0.334	—
74	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Right Side	5mm	Ant5+6	Hotspot on	38	5190	1	14.35	16.00	1.462	93.98	1.064	0.08	0.225	**0.350**	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Top Side	5mm	Ant5+6	Hotspot on	38	5190	1	14.35	16.00	1.462	93.98	1.064	0.02	0.101	0.157	—
	WLAN5GHz	—	—	—	—	802.11n-HT40 MCS0	Right Side	5mm	Ant5+6	Hotspot on	38	5190	2	14.35	16.00	1.462	93.98	1.064	0.01	0.206	0.320	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Front	5mm	Ant5+6	Hotspot on	155	5775	1	13.75	15.50	1.496	93.4	1.071	0.03	0.110	0.176	—
77	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6	Hotspot on	155	5775	1	13.75	15.50	1.496	93.4	1.071	0.02	0.186	**0.298**	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Right Side	5mm	Ant5+6	Hotspot on	155	5775	1	13.75	15.50	1.496	93.4	1.071	0.03	0.153	0.245	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Top Side	5mm	Ant5+6	Hotspot on	155	5775	1	13.75	15.50	1.496	93.4	1.071	-0.04	0.124	0.199	—
	WLAN5GHz	—	—	—	—	802.11ac-VHT80 MCS0	Back	5mm	Ant5+6	Hotspot on	155	5775	2	13.75	15.50	1.496	93.4	1.071	0.01	0.147	0.236	—

SAR Test Record

Product Specific 10g SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
835MHz																							
78	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	128	824.2	1	29.71	30.90	1.315			-0.02	2.120	**2.788**	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	251	848.8	1	29.42	30.90	1.406			0.03	1.960	2.756	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	1	29.46	30.90	1.393			-0.05	1.930	2.689	—
Simultaneous	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	128	824.2	1	28.35	29.90	1.429			0.09	1.770	2.529	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	128	824.2	2	29.71	30.90	1.315			0.02	1.090	1.434	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	1	23.72	24.00	1.067			0.04	1.160	1.237	—
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	167300	836.5	1	22.58	24.00	1.387			0.06	0.890	1.234	—
79	FR1 n5	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	167300	836.5	1	22.58	24.00	1.387			0.04	2.120	**2.940**	—
	FR1 n5	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI 6	167300	836.5	1	22.50	24.00	1.413			0.04	2.030	2.867	—
	FR1 n5	20M	QPSK	100	0	DFT-15	Top Side	0mm	Ant 1	DSI 6	167300	836.5	1	21.68	23.00	1.355			0.04	1.950	2.643	—
Simultaneous	FR1 n5	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	167300	836.5	1	21.22	22.70	1.406			-0.05	1.280	1.800	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 1	DSI 6	189	836.4	1	29.13	30.90	1.503			0.09	0.813	1.222	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	189	836.4	1	29.13	30.90	1.503			-0.01	1.210	1.819	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Back	12mm	Ant 1	DSI 4	189	836.4	1	29.13	30.90	1.503			0.04	0.263	0.395	—
	GSM850	—	—	—	—	GPRS (3 Tx slots)	Top Side	9mm	Ant 1	DSI 4	189	836.4	1	29.13	30.90	1.503			0.04	0.282	0.424	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	4182	836.4	1	22.75	23.90	1.303			0.01	0.967	1.260	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	4182	836.4	1	22.75	23.90	1.303			0.02	2.270	2.958	—
80	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	4132	826.4	1	22.73	23.90	1.309			-0.06	2.360	**3.090**	1
Repeated	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	4132	826.4	1	22.73	23.90	1.309			0.03	2.280	2.985	1.035
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	4233	846.6	1	22.63	23.90	1.340			0.01	2.180	2.920	—
Simultaneous	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	4132	826.4	1	21.07	22.40	1.358			-0.06	1.720	2.336	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Back	12mm	Ant 1	DSI 4	4132	826.4	1	22.70	24.00	1.349			0.06	0.246	0.332	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	9mm	Ant 1	DSI 4	4132	826.4	1	22.70	24.00	1.349			0.01	0.327	0.441	—
	WCDMA V	—	—	—	—	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	4132	826.4	2	22.73	23.90	1.309			-0.06	1.840	2.409	—
	LTE Band 26	15M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	26865	831.5	1	22.47	23.70	1.327			0.1	1.120	1.487	—
81	LTE Band 26	15M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	26865	831.5	1	22.47	23.70	1.327			0.06	2.330	**3.093**	—
	LTE Band 26	15M	QPSK	36	0	—	Top Side	0mm	Ant 1	DSI 6	26865	831.5	1	21.42	22.70	1.343			0.03	2.100	2.820	—
	LTE Band 26	15M	QPSK	75	0	—	Top Side	0mm	Ant 1	DSI 6	26865	831.5	1	21.38	22.70	1.355			0.02	2.080	2.819	—
Simultaneous	LTE Band 26	15M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	26865	831.5	1	20.59	22.20	1.449			0.05	1.640	2.376	—
	LTE Band 26	15M	QPSK	1	0	—	Back	12mm	Ant 1	DSI 4	26865	831.5	1	22.47	24.00	1.422			0.04	0.212	0.302	—
	LTE Band 26	15M	QPSK	1	0	—	Top Side	9mm	Ant 1	DSI 4	26865	831.5	1	22.47	24.00	1.422			0.04	0.288	0.410	—

SAR Test Record

Product Specific 10g SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
1750MHz																							
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1413	1732.6	1	17.77	19.20	1.390			0.02	1.420	1.974	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1413	1732.6	1	17.77	19.20	1.390			0.01	1.530	2.127	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1312	1712.4	1	17.65	19.20	1.429			0.03	1.590	2.272	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1513	1752.6	1	17.69	19.20	1.416			0.06	1.470	2.081	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	1	17.77	19.20	1.390			0.01	2.090	2.905	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	1	17.65	19.20	1.429			0.03	2.080	2.972	—
82	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1513	1752.6	1	17.69	19.20	1.416			0.06	2.180	**3.086**	—
Simultaneous	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1513	1752.6	1	16.11	17.70	1.442			0.07	1.780	2.567	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Front	7mm	Ant 0	DSI 4	1413	1732.6	1	23.06	24.00	1.242			0.04	1.290	1.602	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	1312	1712.4	1	23.06	24.00	1.242			0.04	1.100	1.366	—
	WCDMA IV	—	—	—	—	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 4	1513	1752.6	1	23.06	24.00	1.242			0.02	1.520	1.887	—
	LTE Band 66	20M	QPSK	1	0	—	Front	0mm	Ant 0	DSI 6	132322	1745	1	17.87	19.40	1.422			-0.06	1.110	1.579	—
	LTE Band 66	20M	QPSK	50	0	—	Front	0mm	Ant 0	DSI 6	132322	1745	1	17.70	19.40	1.479			0.06	0.903	1.336	—
	LTE Band 66	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	132322	1745	1	17.87	19.40	1.422			0.05	1.258	1.789	—
	LTE Band 66	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	132322	1745	1	17.70	19.40	1.479			0.03	0.944	1.396	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	17.87	19.40	1.422			0.02	2.000	2.845	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	1	17.77	19.40	1.455			0.03	1.980	2.882	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	17.63	19.40	1.503			-0.02	2.090	3.142	—
	LTE Band 66	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	17.70	19.40	1.479			0.02	1.740	2.574	—
	LTE Band 66	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	1	17.57	19.40	1.524			0.03	1.710	2.606	—
	LTE Band 66	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	17.59	19.40	1.517			0.04	1.770	2.685	—
	LTE Band 66	20M	QPSK	100	0	—	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	17.59	19.40	1.517			0.06	1.610	2.442	—
Simultaneous	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	16.23	17.90	1.469			0.03	1.710	2.512	—
	LTE Band 66	20M	QPSK	1	0	—	Front	7mm	Ant 0	DSI 4	132572	1770	1	22.58	24.00	1.387			0.05	1.380	1.914	—
	LTE Band 66	20M	QPSK	1	0	—	Back	10mm	Ant 0	DSI 4	132572	1770	1	22.58	24.00	1.387			0.1	1.170	1.623	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	10mm	Ant 0	DSI 4	132572	1770	1	22.58	24.00	1.387			0.03	1.760	2.441	—
	LTE Band 66	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	2	17.63	19.40	1.503			0.06	1.160	1.744	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI 6	349000	1745	1	18.37	19.10	1.183			0.03	1.540	1.822	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI 6	349000	1745	1	18.27	19.10	1.211			0.05	1.750	2.119	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI 6	346000	1730	1	18.26	19.10	1.213			0.07	1.610	1.954	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI 6	352000	1760	1	18.12	19.10	1.253			-0.03	1.530	1.917	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 0	DSI 6	349000	1745	1	18.22	19.10	1.225			0.06	1.520	1.861	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	346000	1730	1	18.37	19.10	1.183			-0.05	1.590	1.881	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	349000	1745	1	18.27	19.10	1.211			0.02	1.710	2.070	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	346000	1730	1	18.26	19.10	1.213			0.06	1.690	2.051	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	352000	1760	1	18.12	19.10	1.253			-0.04	1.730	2.168	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI 6	349000	1745	1	18.22	19.10	1.225			0.02	1.706	2.089	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	18.37	19.10	1.183			-0.06	2.390	2.827	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	346000	1730	1	18.33	19.10	1.194			0.06	2.170	2.591	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	352000	1760	1	18.16	19.10	1.242			-0.05	2.340	2.905	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	18.27	19.10	1.211			-0.06	2.440	2.954	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	346000	1730	1	18.26	19.10	1.213			0.05	2.220	2.694	—
83	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	352000	1760	1	18.12	19.10	1.253			0.02	2.490	**3.120**	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	1	18.22	19.10	1.225			0.06	1.980	2.425	—
Simultaneous	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	352000	1760	1	16.79	17.60	1.205			-0.04	1.720	2.073	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	7mm	Ant 0	DSI 4	349000	1745	1	22.20	24.00	1.514			0.1	0.963	1.458	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 0	DSI 4	352000	1760	1	22.09	24.00	1.552			0.02	0.793	1.231	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	352000	1760	1	22.09	24.00	1.552			0.06	1.160	1.801	—
	LTE Band 66	20M	QPSK	1	0	—	Front	0mm	Ant 1	DSI 6	132322	1745	1	20.99	21.90	1.233			0.02	1.730	2.133	—
	LTE Band 66	20M	QPSK	1	0	—	Front	0mm	Ant 1	DSI 6	132072	1720	1	20.95	21.90	1.245			-0.06	1.680	2.091	—
	LTE Band 66	20M	QPSK	1	0	—	Front	0mm	Ant 1	DSI 6	132572	1770	1	20.92	21.90	1.253			0.07	1.720	2.155	—
	LTE Band 66	20M	QPSK	50	0	—	Front	0mm	Ant 1	DSI 6	132322	1745	1	20.90	21.90	1.259			-0.03	1.520	1.914	—
	LTE Band 66	20M	QPSK	100	0	—	Front	0mm	Ant 1	DSI 6	132322	1745	1	20.84	21.90	1.276			0.02	1.510	1.927	—
	LTE Band 66	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	132322	1745	1	20.99	21.90	1.233			-0.06	2.060	2.540	—
	LTE Band 66	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	132072	1720	1	20.95	21.90	1.245			0.06	1.950	2.427	—
	LTE Band 66	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	132572	1770	1	20.92	21.90	1.253			-0.05	2.190	2.744	—
	LTE Band 66	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	132322	1745	1	20.90	21.90	1.259			-0.06	1.760	2.216	—
	LTE Band 66	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	132072	1720	1	20.88	21.90	1.265			-0.03	1.700	2.150	—
	LTE Band 66	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	132572	1770	1	20.83	21.90	1.279			0.02	1.670	2.137	—
	LTE Band 66	20M	QPSK	100	0	—	Back	0mm	Ant 1	DSI 6	132322	1745	1	20.84	21.90	1.276			-0.06	1.700	2.170	—
	LTE Band 66	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	20.99	21.90	1.233			0.06	2.350	2.898	—
	LTE Band 66	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	132072	1720	1	20.95	21.90	1.245			-0.06	1.980	2.464	—
84	LTE Band 66	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	132572	1770	1	20.92	21.90	1.253			-0.04	2.510	**3.145**	1
Repeated	LTE Band 66	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	132572	1770	1	20.92	21.90	1.253			0.01	2.470	3.095	1.016
	LTE Band 66	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	20.90	21.90	1.259			-0.06	2.100	2.644	—
	LTE Band 66	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	132072	1720	1	20.88	21.90	1.265			-0.01	1.970	2.492	—
	LTE Band 66	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	132572	1770	1	20.83	21.90	1.279			0.02	2.390	3.058	—
	LTE Band 66	20M	QPSK	100	0	—	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	20.84	21.90	1.276			-0.06	2.320	2.961	—
Simultaneous	LTE Band 66	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	132572	1770	1	19.40	20.40	1.259			0.02	1.630	2.052	—
	LTE Band 66	20M	QPSK	1	0	—	Front	9mm	Ant 1	DSI 4	132572	1770	1	22.47	24.00	1.422			-0.06	0.436	0.620	—
	LTE Band 66	20M	QPSK	1	0	—	Back	12mm	Ant 1	DSI 4	132572	1770	1	22.47	24.00	1.422			-0.01	0.378	0.538	—
	LTE Band 66	20M	QPSK	1	0	—	Top Side	9mm	Ant 1	DSI 4	132572	1770	1	22.47	24.00	1.422			0.02	0.716	1.018	—
	LTE Band 66	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	132572	1770	2	20.92	21.90	1.253			0.01	2.250	2.820	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	1	20.80	21.90	1.288			-0.06	1.550	1.997	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	1	20.65	21.90	1.334			-0.03	1.720	2.294	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	346000	1730	1	20.61	21.90	1.346			0.06	1.680	2.261	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	352000	1760	1	20.57	21.90	1.358			0.09	1.640	2.228	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	1	20.57	21.90	1.358			0.04	1.520	2.065	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	1	20.80	21.90	1.288			-0.06	1.720	2.216	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	346000	1730	1	20.70	21.90	1.318			0.03	1.620	2.136	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	352000	1760	1	20.60	21.90	1.349			0.04	1.550	2.091	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	1	20.65	21.90	1.334			0.06	1.780	2.374	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	346000	1730	1	20.61	21.90	1.346			-0.02	1.690	2.275	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	352000	1760	1	20.57	21.90	1.358			0.06	1.570	2.133	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	1	20.57	21.90	1.358			0.03	1.510	2.051	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI 6	349000	1745	1	20.80	21.90	1.288			-0.04	0.839	1.081	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 1	DSI 6	349000	1745	1	20.65	21.90	1.334			0.02	0.708	0.944	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	20.80	21.90	1.288			-0.06	2.020	2.602	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	346000	1730	1	20.70	21.90	1.318			0.03	1.980	2.610	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	352000	1760	1	20.60	21.90	1.349			0.01	1.940	2.617	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	20.65	21.90	1.334			0.06	2.260	3.014	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 6	346000	1730	1	20.61	21.90	1.346			0.02	2.220	2.988	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 6	352000	1760	1	20.57	21.90	1.358			-0.06	2.190	2.975	—
	FR1 n66	40M	QPSK	216	0	DFT-15	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	20.57	21.90	1.358			-0.05	1.750	2.377	—
Simultaneous	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	19.18	20.40	1.324			0.01	1.760	2.331	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	9mm	Ant 1	DSI 4	349000	1745	1	22.14	24.00	1.535			0.02	0.341	0.523	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	12mm	Ant 1	DSI 4	349000	1745	1	22.14	24.00	1.535			-0.06	0.385	0.591	—
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	7mm	Ant 1	DSI 4	349000	1745	1	22.24	24.00	1.500			0.06	0.232	0.348	—
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	9mm	Ant 1	DSI 4	349000	1745	1	22.14	24.00	1.535			-0.05	0.545	0.836	—

SAR Test Record

Product Specific 10g SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
1900MHz																							
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	512	1850.2	1	25.46	26.40	1.242			-0.03	1.700	2.111	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	661	1880	1	25.40	26.40	1.259			-0.06	1.720	2.165	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	1	25.37	26.40	1.268			0.02	1.720	2.180	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	512	1850.2	1	25.46	26.40	1.242			-0.01	2.240	2.781	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	661	1880	1	25.40	26.40	1.259			-0.07	2.420	3.047	—
85	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	810	1909.8	1	25.37	26.40	1.268			0.02	2.470	**3.131**	—
Simultaneous	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	810	1909.8	1	23.85	24.90	1.274			0.02	1.730	2.203	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Back	10mm	Ant 0	DSI 4	810	1909.8	1	26.01	27.40	1.377			-0.03	0.462	0.636	—
	GSM1900	—	—	—	—	GPRS (3 Tx slots)	Bottom Side	10mm	Ant 0	DSI 4	810	1909.8	1	26.01	27.40	1.377			0.02	0.745	1.026	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9400	1880	1	19.66	20.40	1.186			-0.03	1.380	1.636	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9400	1880	1	19.66	20.40	1.186			0.06	1.880	2.229	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9538	1907.6	1	19.56	20.40	1.213			-0.04	1.980	2.403	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9262	1852.4	1	19.54	20.40	1.219			-0.06	1.960	2.389	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9400	1880	1	19.66	20.40	1.186			0.02	2.460	2.917	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	1	19.56	20.40	1.213			0.06	2.520	3.058	—
86	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	1	19.54	20.40	1.219			-0.06	2.570	**3.133**	—
Simultaneous	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	1	18.04	18.90	1.219			-0.03	1.950	2.377	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Front	7mm	Ant 0	DSI 4	9262	1852.4	1	22.67	24.00	1.358			-0.06	1.280	1.739	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	9538	1907.6	1	22.71	24.00	1.346			-0.04	1.090	1.467	—
	WCDMA II	—	—	—	—	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 4	9262	1852.4	1	22.67	24.00	1.358			0.02	1.800	2.445	—
	LTE Band 2	20M	QPSK	1	0	—	Front	0mm	Ant 0	DSI 6	18900	1880	1	19.77	20.50	1.183			-0.03	1.440	1.704	—
	LTE Band 2	20M	QPSK	50	0	—	Front	0mm	Ant 0	DSI 6	18900	1880	1	19.60	20.50	1.230			0.02	1.000	1.230	—
	LTE Band 2	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	18900	1880	1	19.77	20.50	1.183			-0.04	1.570	1.857	—
	LTE Band 2	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	18900	1880	1	19.60	20.50	1.230			-0.06	1.310	1.612	—
	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	19.77	20.50	1.183			-0.03	2.410	2.851	—
	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	18700	1860	1	19.66	20.50	1.213			0.02	2.570	3.118	—
87	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	1	19.72	20.50	1.197			-0.06	2.620	**3.135**	1
Repeated	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	1	19.72	20.50	1.197			0.01	2.480	2.968	1.056
	LTE Band 2	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	19.60	20.50	1.230			-0.02	1.990	2.448	—
	LTE Band 2	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	18700	1860	1	19.56	20.50	1.242			-0.06	2.020	2.508	—
	LTE Band 2	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	1	19.42	20.50	1.282			-0.03	2.150	2.757	—
	LTE Band 2	20M	QPSK	100	0	—	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	19.54	20.50	1.247			-0.06	1.990	2.482	—
Simultaneous	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	1	18.14	19.00	1.219			-0.04	2.050	2.499	—
	LTE Band 2	20M	QPSK	1	0	—	Front	7mm	Ant 0	DSI 4	18700	1860	1	22.25	24.00	1.496			-0.06	1.170	1.751	—
	LTE Band 2	20M	QPSK	1	0	—	Back	10mm	Ant 0	DSI 4	18700	1860	1	22.25	24.00	1.496			-0.03	0.942	1.409	—
	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	10mm	Ant 0	DSI 4	19100	1900	1	22.26	22.26	1.000			-0.06	1.410	1.410	—
	LTE Band 2	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	2	12.77	13.80	1.268			-0.06	1.760	2.231	—
	LTE Band 2	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	18900	1880	1	21.22	22.10	1.225			0.02	1.830	2.241	—
	LTE Band 2	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	18700	1860	1	21.10	22.10	1.259			-0.03	1.830	2.304	—
	LTE Band 2	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	19100	1900	1	20.96	22.10	1.300			-0.06	2.090	2.717	—
	LTE Band 2	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	18900	1880	1	21.07	22.10	1.268			-0.04	1.750	2.218	—
	LTE Band 2	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	18700	1860	1	20.90	22.10	1.318			0.09	1.710	2.254	—
	LTE Band 2	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	19100	1900	1	20.92	22.10	1.312			0.04	1.690	2.218	—
	LTE Band 2	20M	QPSK	100	0	—	Back	0mm	Ant 1	DSI 6	18900	1880	1	20.91	22.10	1.315			-0.06	1.710	2.249	—
	LTE Band 2	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	18900	1880	1	21.22	22.10	1.225			-0.03	2.160	2.645	—
	LTE Band 2	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	18700	1860	1	21.10	22.10	1.259			-0.03	2.110	2.656	—
	LTE Band 2	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	19100	1900	1	20.96	22.10	1.300			-0.06	2.390	3.107	—
	LTE Band 2	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	18900	1880	1	21.07	22.10	1.268			-0.03	1.780	2.256	—
	LTE Band 2	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	18700	1860	1	20.90	22.10	1.318			0.02	1.670	2.201	—
	LTE Band 2	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	19100	1900	1	20.92	22.10	1.312			-0.06	1.690	2.218	—
	LTE Band 2	20M	QPSK	100	0	—	Top Side	0mm	Ant 1	DSI 6	18900	1880	1	20.91	22.10	1.315			0.06	1.820	2.394	—
Simultaneous	LTE Band 2	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	19100	1900	1	19.50	20.60	1.288			-0.03	1.660	2.138	—
	LTE Band 2	20M	QPSK	1	0	—	Back	12mm	Ant 1	DSI 4	19100	1900	1	22.48	24.00	1.419			0.02	0.453	0.643	—
	LTE Band 2	20M	QPSK	1	0	—	Top Side	9mm	Ant 1	DSI 4	19100	1900	1	22.48	24.00	1.419			0.1	0.701	0.995	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	376000	1880	1	20.92	22.00	1.282			-0.03	2.050	2.629	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	372000	1860	1	20.79	22.00	1.321			0.06	1.980	2.616	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	380000	1900	1	20.75	22.00	1.334			0.01	1.930	2.574	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	DSI 6	376000	1880	1	20.76	22.00	1.330			-0.06	2.300	3.060	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	DSI 6	372000	1860	1	20.73	22.00	1.340			0.06	2.120	2.840	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	DSI 6	380000	1900	1	20.69	22.00	1.352			-0.06	2.030	2.745	—
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 1	DSI 6	376000	1880	1	20.64	22.00	1.368			-0.03	1.960	2.681	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	376000	1880	1	20.92	22.00	1.282			-0.03	2.180	2.795	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	372000	1860	1	20.79	22.00	1.321			-0.06	1.880	2.484	—
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 6	380000	1900	1	20.75	22.00	1.334			-0.03	1.900	2.534	—
88	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI 6	376000	1880	1	20.76	22.00	1.330			0.02	2.360	**3.140**	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI 6	372000	1860	1	20.73	22.00	1.340			-0.06	2.070	2.773	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI 6	380000	1900	1	20.69	22.00	1.352			0.06	2.200	2.975	—
	FR1 n2	20M	QPSK	100	0	DFT-15	Top Side	0mm	Ant 1	DSI 6	376000	1880	1	20.64	22.00	1.368			-0.03	1.920	2.626	—
Simultaneous	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI 6	376000	1880	1	19.34	20.50	1.306			-0.06	1.630	2.129	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	12mm	Ant 1	DSI 4	376000	1880	1	22.59	24.00	1.384			-0.03	0.499	0.690	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	9mm	Ant 1	DSI 4	376000	1880	1	22.59	24.00	1.384			0.02	0.767	1.061	—
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI 6	376000	1880	2	20.76	22.00	1.330			0.02	1.670	2.222	—

SAR Test Record

Product Specific 10g SAR Test																						
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
										2600MHz												
	LTE Band 7	20M	QPSK	1	0	—	Front	0mm	Ant 0	DSI 6	21100	2535	1	20.85	21.30	1.109			-0.03	1.870	2.074	—
	LTE Band 7	20M	QPSK	1	0	—	Front	0mm	Ant 0	DSI 6	20850	2510	1	20.64	21.30	1.164			-0.03	1.880	2.189	—
	LTE Band 7	20M	QPSK	1	0	—	Front	0mm	Ant 0	DSI 6	21350	2560	1	20.60	21.30	1.175			-0.06	1.690	1.986	—
	LTE Band 7	20M	QPSK	50	0	—	Front	0mm	Ant 0	DSI 6	21100	2535	1	20.75	21.30	1.135			-0.03	1.520	1.725	—
	LTE Band 7	20M	QPSK	100	0	—	Front	0mm	Ant 0	DSI 6	21100	2535	1	20.71	21.30	1.146			-0.03	1.500	1.718	—
	LTE Band 7	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	21100	2535	1	20.85	21.30	1.109			-0.06	2.500	2.773	—
	LTE Band 7	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	20850	2510	1	20.64	21.30	1.164			0.06	2.500	2.910	—
	LTE Band 7	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	21350	2560	1	20.60	21.30	1.175			0.03	2.630	3.090	1
Repeated	LTE Band 7	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	21350	2560	1	20.60	21.30	1.175			0.06	2.540	2.984	1.035
UL CA	LTE Band 7	20M	QPSK	1	99	—	Back	0mm	Ant 0	DSI 6	21100+21298	2535+2554.8	1	20.45	21.30	1.216			0.02	2.510	3.053	—
	LTE Band 7	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	21100	2535	1	20.75	21.30	1.135			-0.03	2.110	2.395	—
	LTE Band 7	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	20850	2510	1	20.53	21.30	1.194			-0.06	2.060	2.460	—
	LTE Band 7	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	21350	2560	1	20.56	21.30	1.186			0.06	2.130	2.526	—
	LTE Band 7	20M	QPSK	100	0	—	Back	0mm	Ant 0	DSI 6	21100	2535	1	20.71	21.30	1.146			-0.06	2.120	2.428	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	1	20.85	21.30	1.109			-0.03	1.870	2.074	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	1	20.64	21.30	1.164			-0.03	2.080	2.421	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	1	20.60	21.30	1.175			-0.06	1.770	2.080	—
	LTE Band 7	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	1	20.75	21.30	1.135			-0.03	1.720	1.952	—
	LTE Band 7	20M	QPSK	100	0	—	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	1	20.71	21.30	1.146			0.02	1.700	1.947	—
Simultaneous	LTE Band 7	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	21350	2560	1	19.02	19.80	1.197			0.03	1.830	2.190	—
UL CA	LTE Band 7	20M	QPSK	1	99	—	Back	0mm	Ant 0	DSI 6	21100+21298	2535+2554.8	1	18.94	19.80	1.219			0.01	1.740	2.121	—
	LTE Band 7	20M	QPSK	1	0	—	Front	7mm	Ant 0	DSI 4	20850	2510	1	22.75	24.00	1.334			-0.03	0.801	1.068	—
	LTE Band 7	20M	QPSK	1	0	—	Back	10mm	Ant 0	DSI 4	21350	2560	1	22.80	24.00	1.318			0.02	0.543	0.716	—
	LTE Band 7	20M	QPSK	1	0	—	Bottom Side	10mm	Ant 0	DSI 4	20850	2510	1	22.75	24.00	1.334			-0.06	1.270	1.694	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI 6	507000	2535	1	21.10	22.20	1.288			-0.03	1.060	1.366	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI 6	507000	2535	1	21.02	22.20	1.312			-0.03	1.250	1.640	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	507000	2535	1	21.10	22.20	1.288			0.06	2.160	2.783	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	504000	2520	1	20.97	22.20	1.327			0.04	2.200	2.920	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	510000	2550	1	20.90	22.20	1.349			0.09	1.950	2.630	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	507000	2535	1	21.02	22.20	1.312			-0.03	2.180	2.861	—
89	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	504000	2520	1	20.90	22.20	1.349			-0.06	2.310	**3.116**	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	510000	2550	1	20.94	22.20	1.337			0.06	2.070	2.767	—
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI 6	507000	2535	1	20.85	22.20	1.365			-0.06	2.250	3.070	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	507000	2535	1	21.10	22.20	1.288			-0.03	1.730	2.229	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	504000	2520	1	20.97	22.20	1.327			-0.03	1.740	2.310	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	510000	2550	1	20.90	22.20	1.349			-0.06	1.850	2.496	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	507000	2535	1	21.02	22.20	1.312			-0.03	1.880	2.467	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	504000	2520	1	20.90	22.20	1.349			0.02	1.840	2.482	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	510000	2550	1	20.94	22.20	1.337			-0.06	1.640	2.192	—
	FR1 n7	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 0	DSI 6	507000	2535	1	20.85	22.20	1.365			0.02	1.800	2.456	—
Simultaneous	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	504000	2520	1	19.47	20.70	1.327			-0.06	1.400	1.858	—
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	7mm	Ant 0	DSI 4	504000	2520	1	23.18	24.00	1.208			-0.06	0.714	0.862	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 0	DSI 4	504000	2520	1	23.14	24.00	1.219			-0.03	0.566	0.690	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	504000	2520	1	23.14	24.00	1.219			0.02	1.110	1.353	—
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI 6	504000	2520	2	20.90	22.20	1.349			0.06	1.530	2.064	—
	LTE Band 41	20M	QPSK	1	0	—	Front	0mm	Ant 0	DSI 6	40620	2593	1	22.52	23.50	1.253	62.9	1.006	-0.03	1.370	1.727	—
	LTE Band 41	20M	QPSK	50	0	—	Front	0mm	Ant 0	DSI 6	40620	2593	1	21.62	23.00	1.374	62.9	1.006	0.04	1.060	1.465	—
90	LTE Band 41	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	40620	2593	1	22.52	23.50	1.253	62.9	1.006	0.02	1.980	**2.496**	—
	LTE Band 41	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	39750	2506	1	22.36	23.50	1.300	62.9	1.006	-0.05	1.840	2.407	—
	LTE Band 41	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	40185	2549.5	1	22.43	23.50	1.279	62.9	1.006	0.06	1.860	2.394	—
	LTE Band 41	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	41055	2636.5	1	22.43	23.50	1.279	62.9	1.006	-0.06	1.790	2.304	—
	LTE Band 41	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	41490	2680	1	22.39	23.50	1.291	62.9	1.006	0.06	1.690	2.195	—
	LTE Band 41	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	40620	2593	1	21.62	23.00	1.374	62.9	1.006	-0.06	1.740	2.405	—
	LTE Band 41	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	39750	2506	1	21.46	23.00	1.426	62.9	1.006	0.03	1.710	2.452	—
	LTE Band 41	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	40185	2549.5	1	21.37	23.00	1.455	62.9	1.006	0.06	1.650	2.416	—
	LTE Band 41	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	41055	2636.5	1	21.38	23.00	1.452	62.9	1.006	0.08	1.730	2.527	—
	LTE Band 41	20M	QPSK	50	0	—	Back	0mm	Ant 0	DSI 6	41490	2680	1	21.49	23.00	1.416	62.9	1.006	-0.12	1.650	2.350	—
	LTE Band 41	20M	QPSK	100	0	—	Back	0mm	Ant 0	DSI 6	40620	2593	1	21.56	23.00	1.393	62.9	1.006	0.03	1.440	2.018	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	1	22.52	23.50	1.253	62.9	1.006	0.04	1.750	2.206	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	1	22.36	23.50	1.300	62.9	1.006	0.03	1.680	2.197	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	1	22.43	23.50	1.279	62.9	1.006	0.04	1.720	2.214	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	1	22.43	23.50	1.279	62.9	1.006	0.05	1.660	2.137	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	1	22.39	23.50	1.291	62.9	1.006	0.09	1.620	2.104	—
	LTE Band 41	20M	QPSK	50	0	—	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	1	21.62	23.00	1.374	62.9	1.006	0.04	1.420	1.963	—
	LTE Band 41	20M	QPSK	100	0	—	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	1	21.56	22.50	1.242	62.9	1.006	0.06	1.530	1.911	—
Simultaneous	LTE Band 41	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	40620	2593	1	21.57	22.00	1.104	62.9	1.006	-0.05	1.380	1.533	—
	LTE Band 41	20M	QPSK	1	0	—	Front	7mm	Ant 0	DSI 4	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.06	0.685	0.858	—
	LTE Band 41	20M	QPSK	1	0	—	Back	10mm	Ant 0	DSI 4	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.03	0.523	0.655	—
	LTE Band 41	20M	QPSK	1	0	—	Bottom Side	10mm	Ant 0	DSI 4	39750	2506	1	22.84	24.00	1.306	62.9	1.006	0.02	0.960	1.261	—
	LTE Band 41 HPUE	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	40620	2593	1	24.30	25.10	1.202	42.9	1.009	0.03	2.020	2.450	—
Simultaneous	LTE Band 41 HPUE	20M	QPSK	1	0	—	Back	0mm	Ant 0	DSI 6	40620	2593	1	22.55	23.60	1.274	42.9	1.009	0.04	1.280	1.645	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	0mm	Ant 0	DSI 6	519000	2595	1	21.15	22.30	1.303			0.03	1.240	1.616	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	0mm	Ant 0	DSI 6	519000	2595	1	21.10	22.30	1.318			0.03	1.120	1.476	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 0	DSI 6	519000	2595	1	21.15	22.30	1.303			0.06	2.060	2.685	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 0	DSI 6	518004	2590.02	1	21.01	22.30	1.346			-0.01	1.910	2.571	—
91	FR1 n38	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 0	DSI 6	519996	2599.98	1	20.85	22.30	1.396			0.05	2.200	**3.072**	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 0	DSI 6	519000	2595	1	21.10	22.30	1.318			0.02	1.870	2.465	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 0	DSI 6	518004	2590.02	1	20.98	22.30	1.355			0.02	1.840	2.494	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 0	DSI 6	519996	2599.98	1	20.93	22.30	1.371			0.02	1.860	2.550	—
	FR1 n38	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 0	DSI 6	519000	2595	1	20.86	22.30	1.393			0.04	2.070	2.884	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	519000	2595	1	21.15	22.30	1.303			-0.06	2.060	2.685	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	518004	2590.02	1	21.01	22.30	1.346			0.04	1.820	2.449	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	519996	2599.98	1	20.85	22.30	1.396			0.03	1.680	2.346	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	519000	2595	1	21.10	22.30	1.318			-0.03	1.560	2.056	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	518004	2590.02	1	20.98	22.30	1.355			0.06	1.480	2.006	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	519996	2599.98	1	20.93	22.30	1.371			0.02	1.510	2.070	—
	FR1 n38	40M	QPSK	100	0	DFT-30	Bottom Side	0mm	Ant 0	DSI 6	519000	2595	1	20.86	22.30	1.393			-0.05	1.450	2.020	—
Simultaneous	FR1 n38	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 0	DSI 6	519996	2599.98	1	19.32	20.80	1.406			0.01	1.580	2.222	—
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	7mm	Ant 0	DSI 4	519000	2595	1	23.12	24.00	1.225			-0.06	0.665	0.814	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	519996	2599.98	1	23.22	24.00	1.197			-0.03	0.487	0.583	—
	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	519000	2595	1	23.25	24.00	1.189			0.02	0.878	1.044	—
	LTE Band 7	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	21100	2535	1	20.09	21.40	1.352			0.04	1.010	1.366	—
	LTE Band 7	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	21100	2535	1	20.04	21.40	1.368			0.06	1.030	1.409	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	21100	2535	1	20.09	21.40	1.352			-0.06	2.100	2.839	—
92	LTE Band 7	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	20850	2510	1	19.96	21.40	1.393			0.03	2.240	**3.121**	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	21350	2560	1	20.06	21.40	1.361			0.04	1.770	2.410	—
	LTE Band 7	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	21100	2535	1	20.04	21.40	1.368			-0.06	1.770	2.421	—
	LTE Band 7	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	20850	2510	1	19.91	21.40	1.409			0.04	1.450	2.043	—
	LTE Band 7	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	21350	2560	1	19.94	21.40	1.400			-0.06	1.690	2.365	—
	LTE Band 7	20M	QPSK	100	0	—	Top Side	0mm	Ant 1	DSI 6	21100	2535	1	20.01	21.40	1.377			0.06	1.780	2.451	—
Simultaneous	LTE Band 7	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	20850	2510	1	18.47	19.90	1.390			-0.06	1.820	2.530	—
	LTE Band 7	20M	QPSK	1	0	—	Back	12mm	Ant 1	DSI 4	21350	2560	1	22.91	24.00	1.285			0.01	0.318	0.409	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	9mm	Ant 1	DSI 4	20850	2510	1	22.95	24.00	1.274			0.01	0.712	0.907	—
	LTE Band 7	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	20850	2510	2	19.96	21.40	1.393			0.06	1.880	2.619	—
	LTE Band 38	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	38000	2595	1	19.25	20.20	1.245			0.06	1.770	2.203	—
	LTE Band 38	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	37850	2580	1	19.21	20.20	1.256			-0.06	1.890	2.374	—
	LTE Band 38	20M	QPSK	1	0	—	Back	0mm	Ant 1	DSI 6	38150	2610	1	19.20	20.20	1.259			0.03	1.930	2.430	—
	LTE Band 38	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	38000	2595	1	19.22	20.20	1.253			0.04	1.810	2.268	—
	LTE Band 38	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	37850	2580	1	19.21	20.20	1.256			0.06	1.790	2.248	—
	LTE Band 38	20M	QPSK	50	0	—	Back	0mm	Ant 1	DSI 6	38150	2610	1	19.08	20.20	1.294			0.01	1.760	2.278	—
	LTE Band 38	20M	QPSK	100	0	—	Back	0mm	Ant 1	DSI 6	38000	2595	1	19.17	20.20	1.268			0.03	1.710	2.168	—
	LTE Band 38	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	38000	2595	1	19.25	20.20	1.245			0.02	2.450	3.049	—
	LTE Band 38	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	37850	2580	1	19.21	20.20	1.256			-0.06	2.370	2.977	—
	LTE Band 38	20M	QPSK	1	0	—	Top Side	0mm	Ant 1	DSI 6	38150	2610	1	19.20	20.20	1.259			-0.06	2.400	3.021	—
	LTE Band 38	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	38000	2595	1	19.22	20.20	1.253			0.03	2.280	2.857	—
93	LTE Band 38	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	37850	2580	1	19.21	20.20	1.256			-0.04	2.450	**3.077**	—
	LTE Band 38	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	38150	2610	1	19.08	20.20	1.294			0.03	2.380	3.080	—
	LTE Band 38	20M	QPSK	100	0	—	Top Side	0mm	Ant 1	DSI 6	38000	2595	1	19.17	20.20	1.268			0.04	2.300	2.916	—
Simultaneous	LTE Band 38	20M	QPSK	50	0	—	Top Side	0mm	Ant 1	DSI 6	37850	2580	1	18.31	18.70	1.094			-0.09	1.770	1.936	—
	LTE Band 38	20M	QPSK	1	0	—	Back	12mm	Ant 1	DSI 4	38150	2610	1	22.77	24.00	1.327			0.03	0.276	0.366	—
	LTE Band 38	20M	QPSK	1	0	—	Top Side	9mm	Ant 1	DSI 4	38150	2610	1	22.77	24.00	1.327			-0.04	0.688	0.913	—

SAR Test Record

Product Specific 10g SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
3500MHz																							
	LTE Band 42	20M	QPSK	1	0	—	Front	0mm	Ant 4	DSI 6	42590	3460	1	21.26	22.10	1.213	62.9	1.006	0.03	2.310	2.820	—
	LTE Band 42	20M	QPSK	1	0	—	Front	0mm	Ant 4	DSI 6	42190	3540	1	21.11	22.10	1.256	62.9	1.006	0.04	2.360	2.982	—
94	LTE Band 42	20M	QPSK	1	0	—	Front	0mm	Ant 4	DSI 6	42990	3540	1	21.14	22.10	1.247	62.9	1.006	0.01	2.480	**3.112**	1
Repeated	LTE Band 42	20M	QPSK	1	0	—	Front	0mm	Ant 4	DSI 6	42990	3540	1	21.14	22.10	1.247	62.9	1.006	0.09	2.360	2.961	1.051
	LTE Band 42	20M	QPSK	50	0	—	Front	0mm	Ant 4	DSI 6	42590	3460	1	21.18	22.10	1.236	62.9	1.006	0.04	2.070	2.574	—
	LTE Band 42	20M	QPSK	50	0	—	Front	0mm	Ant 4	DSI 6	42190	3540	1	21.06	22.10	1.271	62.9	1.006	-0.06	2.220	2.838	—
	LTE Band 42	20M	QPSK	50	0	—	Front	0mm	Ant 4	DSI 6	42990	3540	1	21.02	22.10	1.282	62.9	1.006	0.04	2.190	2.825	—
	LTE Band 42	20M	QPSK	100	0	—	Front	0mm	Ant 4	DSI 6	42590	3460	1	21.17	22.10	1.239	62.9	1.006	0.03	1.950	2.430	—
	LTE Band 42	20M	QPSK	1	0	—	Back	0mm	Ant 4	DSI 6	42590	3460	1	21.26	22.10	1.213	62.9	1.006	-0.06	1.560	1.904	—
	LTE Band 42	20M	QPSK	50	0	—	Back	0mm	Ant 4	DSI 6	42590	3460	1	21.18	22.10	1.236	62.9	1.006	0.03	0.958	1.191	—
	LTE Band 42	20M	QPSK	1	0	—	Top Side	0mm	Ant 4	DSI 6	42590	3460	1	21.26	22.10	1.213	62.9	1.006	-0.01	0.684	0.835	—
	LTE Band 42	20M	QPSK	50	0	—	Top Side	0mm	Ant 4	DSI 6	42590	3460	1	21.18	22.10	1.236	62.9	1.006	-0.06	0.567	0.705	—
Simultaneous	LTE Band 42	20M	QPSK	1	0	—	Front	0mm	Ant 4	DSI 6	42990	3540	1	19.68	20.60	1.236	62.9	1.006	0.07	1.840	2.288	—
	LTE Band 42	20M	QPSK	1	0	—	Front	6mm	Ant 4	DSI 4	42990	3540	1	22.82	24.00	1.312	62.9	1.006	-0.06	1.160	1.531	—
	LTE Band 42	20M	QPSK	1	0	—	Back	10mm	Ant 4	DSI 4	42590	3460	1	22.91	24.00	1.285	62.9	1.006	-0.06	0.977	1.263	—
	LTE Band 42	20M	QPSK	1	0	—	Top Side	9mm	Ant 4	DSI 4	42590	3460	1	22.91	24.00	1.285	62.9	1.006	0.01	0.954	1.234	—
95	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 6	633334	3500.01	1	19.01	20.30	1.346			0.04	2.310	**3.109**	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 6	633334	3500.01	1	18.98	20.30	1.355			0.03	2.070	2.805	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 4	DSI 6	633334	3500.01	1	18.92	20.30	1.374			0.08	1.940	2.666	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	633334	3500.01	1	19.01	20.30	1.346			0.02	1.310	1.763	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	633334	3500.01	1	18.98	20.30	1.355			-0.03	1.230	1.667	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 6	633334	3500.01	1	19.01	20.30	1.346			0.04	1.720	2.315	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 6	633334	3500.01	1	18.98	20.30	1.355			0.03	1.640	2.223	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 4	DSI 6	633334	3500.01	1	18.92	20.30	1.374			0.08	1.520	2.089	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 6	633334	3500.01	1	17.68	18.80	1.294			-0.04	1.880	2.433	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	6mm	Ant 4	DSI 4	633334	3500.01	1	25.81	27.00	1.315			0.04	1.490	1.960	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	1	25.81	27.00	1.315			0.03	1.250	1.644	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	9mm	Ant 4	DSI 4	633334	3500.01	1	25.81	27.00	1.315			0.08	1.450	1.907	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 6	633334	3500.01	2	19.01	20.30	1.346			0.06	1.930	2.598	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI 4	633334	3500.01	1	16.98	17.90	1.236			0.08	1.540	1.903	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 4	633334	3500.01	1	16.94	17.90	1.247			-0.04	1.480	1.846	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSI 4	633334	3500.01	1	16.98	17.90	1.236			0.04	1.870	2.311	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 4	633334	3500.01	1	16.94	17.90	1.247			0.05	1.930	2.407	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 2	DSI 4	633334	3500.01	1	16.74	17.90	1.306			0.04	1.750	2.286	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 4	633334	3500.01	1	15.52	16.40	1.225			0.03	1.420	1.739	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 4	633334	3500.01	2	16.94	17.90	1.247			0.03	1.140	1.422	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 4	633334	3500.01	1	19.87	20.50	1.156			0.01	1.500	1.734	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	DSI 4	633334	3500.01	1	19.79	20.50	1.178			-0.03	1.420	1.672	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	DSI 4	633334	3500.01	1	19.87	20.50	1.156			-0.08	2.250	2.601	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 7	DSI 4	633334	3500.01	1	19.79	20.50	1.178			-0.08	2.120	2.497	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 7	DSI 4	633334	3500.01	1	19.77	20.50	1.183			0.07	1.980	2.342	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	DSI 4	633334	3500.01	1	18.34	19.00	1.164			-0.04	1.490	1.735	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 7	DSI 4	633334	3500.01	2	19.87	20.50	1.156			0.02	1.560	1.804	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 4	633334	3500.01	1	18.93	20.20	1.340			0.04	2.120	2.840	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 4	633334	3500.01	1	18.87	20.20	1.358			-0.03	2.040	2.771	—
	FR1 n78 Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	DSI 4	633334	3500.01	1	18.82	20.20	1.374			0.08	1.920	2.638	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 8	DSI 4	633334	3500.01	1	18.93	20.20	1.340			-0.07	1.150	1.541	—
	FR1 n78 Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 8	DSI 4	633334	3500.01	1	18.87	20.20	1.358			0.01	1.060	1.440	—
Simultaneous	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 4	633334	3500.01	1	17.55	18.70	1.303			0.04	1.690	2.202	—
	FR1 n78 Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 4	633334	3500.01	2	18.93	20.20	1.340			0.05	1.240	1.661	—
WLAN																						
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Back	0mm	Ant5+6	Handheld on	40	5200	1	20.70	22.00	1.349	94.4	1.059	0.02	0.853	1.219	—
96	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	40	5200	1	20.70	22.00	1.349	94.4	1.059	-0.12	0.968	**1.383**	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	40	5200	2	20.70	22.00	1.349	94.4	1.059	0.01	0.950	1.357	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Front	0mm	Ant5+6	Handheld on	52	5260	1	20.86	22.00	1.300	94.4	1.059	0.08	1.100	1.515	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Back	0mm	Ant5+6	Handheld on	52	5260	1	20.86	22.00	1.300	94.4	1.059	-0.03	0.462	0.636	—
97	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	52	5260	1	20.86	22.00	1.300	94.4	1.059	0.04	1.520	**2.093**	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	56	5280	1	20.84	22.00	1.306	94.4	1.059	0.04	1.500	2.075	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Top Side	0mm	Ant5+6	Handheld on	52	5260	1	20.86	22.00	1.300	94.4	1.059	0.03	0.345	0.475	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	52	5260	2	20.86	22.00	1.300	94.4	1.059	0.03	1.240	1.708	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Front	0mm	Ant5+6	Handheld on	132	5660	1	20.88	22.00	1.294	94.4	1.059	0.03	0.753	1.032	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Back	0mm	Ant5+6	Handheld on	132	5660	1	20.88	22.00	1.294	94.4	1.059	0.04	0.366	0.501	—
98	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	132	5660	1	20.88	22.00	1.294	94.4	1.059	-0.04	0.920	**1.260**	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Top Side	0mm	Ant5+6	Handheld on	132	5660	1	20.88	22.00	1.294	94.4	1.059	0.07	0.376	0.515	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	132	5660	2	20.88	22.00	1.294	94.4	1.059	0.05	0.910	1.247	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Back	0mm	Ant5+6	Handheld on	157	5785	1	20.86	22.50	1.457	94.4	1.059	0.02	0.451	0.696	—
99	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	157	5785	1	20.86	22.50	1.457	94.4	1.059	-0.08	1.140	**1.759**	—
	WLAN5GHz	—	—	—	—	802.11n-HT20 MCS0	Right Side	0mm	Ant5+6	Handheld on	157	5785	2	20.86	22.50	1.457	94.4	1.059	-0.02	0.981	1.514	—

LTE Band 41(HPUE) Ant 0-Linearity Data for Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.133	0.175
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.182	
% deviation from expected linearity		-3.59%

LTE Band 41(HPUE) Ant 0-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	17.90	19.50
Reported 1g SAR (W/kg)	0.825	0.890
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	39.03	38.59
Linearity SAR (W/kg)	0.816	
% deviation from expected linearity		9.11%

LTE Band 41(HPUE) Ant 0-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.20	22.70
Reported 1g SAR (W/kg)	1.276	1.255
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	83.45	80.63
Linearity SAR (W/kg)	1.233	
% deviation from expected linearity		1.79%

LTE Band 41(HPUE) Ant 0-Linearity Data for Extremity SAR		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10
Reported 10g SAR (W/kg)	2.496	2.450
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12
Linearity SAR (W/kg)	2.468	
% deviation from expected linearity		-0.73%